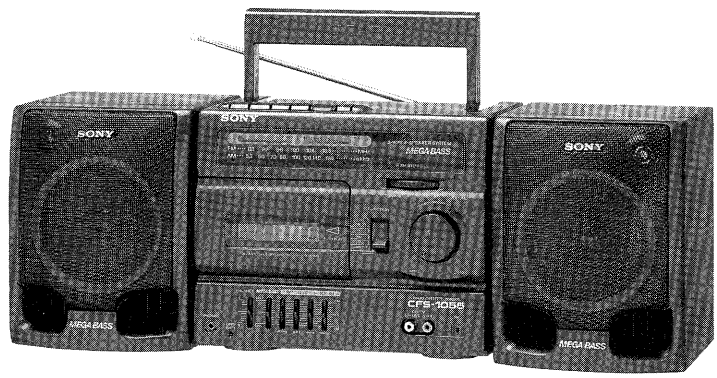
CFS-1055

SERVICE MANUAL

US Model
Canadian Model
AEP Model
Australian Model
E Model



Model Name Using Similar Machanism	NEW
Tape Transport Mechanism Type	MF-1055

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven, from 150 to 10,000 Hz; rated 1.5W per channel minimum, RMS power, with no more than 10% total harmonic distortion in AC operation. (US model)

Other specifications

Frequency range

Sales area	FM	AM
US, Canadian, Australian, E model	87.6–108MHz	530–1,710kHz
Italian model	87.5–108MHz	526.5–1,606.5kHz
AEP model	87.6–107MHz	531–1,602kHz

Antennas	FM: Telescope/AM: Built-in ferrite bar
Recording system	4-track, 2-channel stereo
Frequency response	100-10,000Hz
Speakers Woofer:	10 cm (4inches) dia, cone type/ Tweeter: 2 cm (4/5 inches) dia.
Input	CD/TV LINE IN jacks (phone jacks), sensitivity 0.3V, input impedance 47 kilohms
Output	Headphones jack (stereo minijack), for 16-68 ohms impedance headphones
Power output (except for US)	2.3W+2.3W (at 3.2 ohms, 10% harmonic distortion in DC operation) (Canadian, E, Australian model) 3W+3W (6W) : AEP, Italian model
Power requirements	220-230V AC, 50Hz (AEP, Italian model) 230V AC, 50Hz (Australian model) 120V AC, 60Hz (US, Canadian, E model) 9V DC, six size D (R 20) batteries
Power consumption (in AC operation)	14W (Australian model) 12W (US, Canadian, E model) 14W (AEP, Italian model)

Battery life

Batteries	FM recording	Tape playback
Sony SUM-1 (NS)	Approx. 16 hours	Approx. 8 hours
Sony AM alkaline	Approx. 36 hours	Approx. 21 hours

Dimensions	Approx. 579 x 206 x 197 mm (w/h/d) (22 7/8 x 8 1/8 x 7 7/8 inches) incl. projecting parts and controls, not incl. handle
Mass	Approx. 4.6kg (10lb 2oz) incl. batteries
Supplied accessory	AC power cord (1) (AEP, IT, AUS model)

Design and specifications are subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents.

RADIO CASSETTE-CORDER

SONY®

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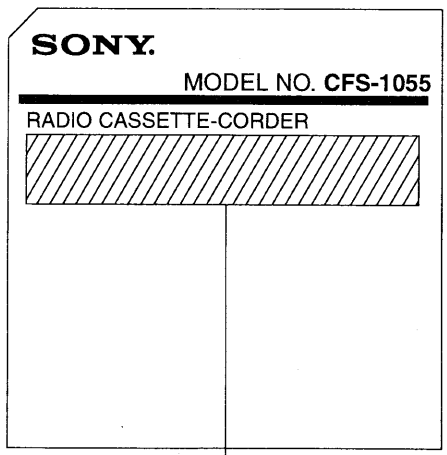
MODEL IDENTIFICATION

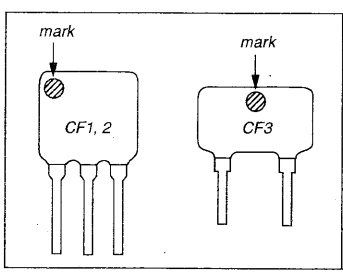
– Model Number Label –



US, Canadian, E model : AC 120V ~ 60Hz
Australian model : AC 230V ~ 50Hz
AEP, Italian model : AC 220-230V ~ 50Hz

● HOW TO CHANGED THE CERAMIC FILTERS

This model is used three ceramic filters of CF1, CF2 and CF3.
You must used same type of color marked ceramic filters in order to meet same specifications.
Therefore, the ceramic filter must changed three pieces together since it's supply three pieces in on package as a spare parts.



Mark	Center frequency
red	10.70MHz
blue	10.67MHz
orange	10.73MHz
black	10.64MHz
white	10.76MHz

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer :
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

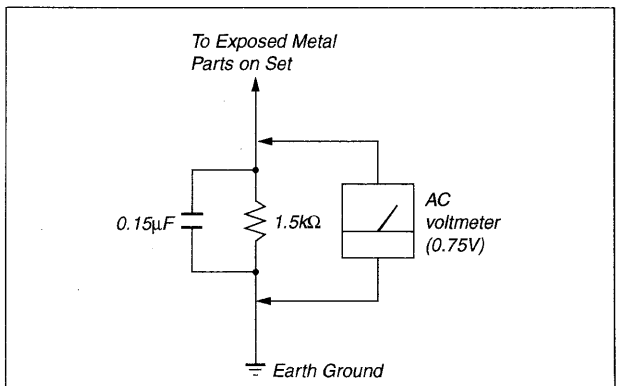


Fig. A. Using an AC voltmeter to check AC leakage.

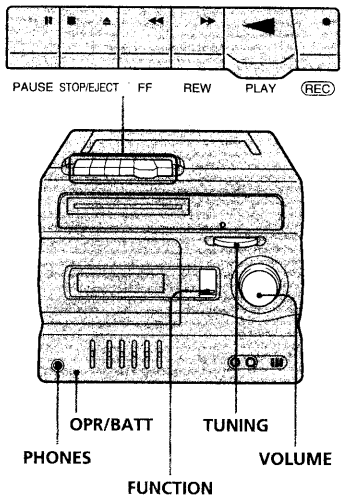
SAFETY-RELATED COMPONENT WARNING!!

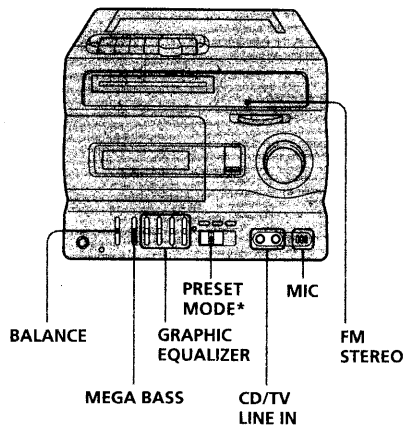
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Location of controls

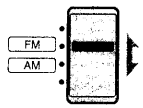




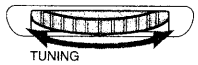
* PRESET MODE : AEP, IT, E model

Listening to the radio

1 Set FUNCTION to FM or AM.



2 Tune to the station you want.

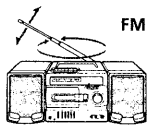


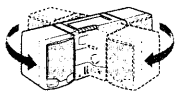
To turn off the radio

Set FUNCTION to TAPE/RADIO OFF.

To improve broadcast reception

Reorient the antenna for FM. Reorient the player itself for AM.





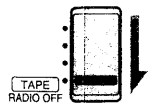
Tips

- To listen through the headphones, connect the headphones to PHONES.
- For best results, move the player away the TV.

Use TYPE I (normal) tape only.

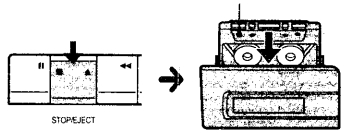
Playing a tape

1 Set FUNCTION to TAPE /RADIO OFF.

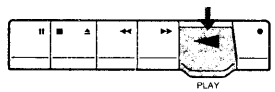


2 Insert a recorded tape.

With the side you want to play on facing forward.



3 Press ◄ PLAY.



To	Press
Stop playback*	■⏏
Fast-forward or rewind the tape*	◄◄ or ►► For the side facing forward.
Pause playback	❚❚ Press this button again to resume playback .

* When the tape end, the depressed button ◄◄, ►► or ◄ is released automatically (Auto shut-off function).

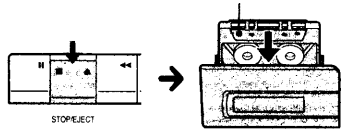
Use TYPE I (normal) tape only.

Recording

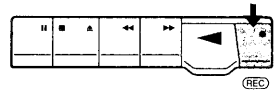
1 **To record from the radio**
Tune to the station you want.
To record from the built-in microphone
Set FUNCTION to TAPE/RADIO OFF.

2 Insert a blank tape.

With the side you want to record on facing forward.



3 Press ● REC.



To	Press
Stop recording	■⏏ When the tape ends, the recording stops.
Pause recording	❚❚ Press this button again to resume recording.

Tips

- For best results, use the AC power source.
- Adjusting the volume or the audio emphasis will not affect the recording level.
- To erase a recording, disconnect the audio source if connected to CD/TV LINE IN. Set FUNCTION to CD/TV LINE IN and press ●.

Note

While recording from the built-in microphone, you cannot monitor the sound through the headphones.

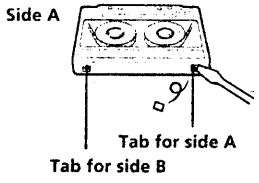
This section is extracted from instruction manual.

Adjusting the audio emphasis

Use	To adjust
BALANCE	Stereo imaging.
MEGA BASS	Deep bass sound.
400 Hz	Speaking voice, middle frequencies of instrumental music.
1 kHz	Presence of vocal.
4 kHz	Brightness of the sound
10 kHz	High treble sounds or to reduce high frequency noise/tape hiss.

Notes on cassettes

- Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



- The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

For the customers having the model with the PRESET MODE
(AEP, IT, E model)

Use	To
MANUAL	adjust the sound using the 4 BAND GRAPHIC EQUALIZER.
DISCO	get powerful, clear sounds emphsizing low and high range audio.
PARTY	get wide-ranging sounds having presence.
LIVE	get light, bright sounds emphasizing high and middle range audio.

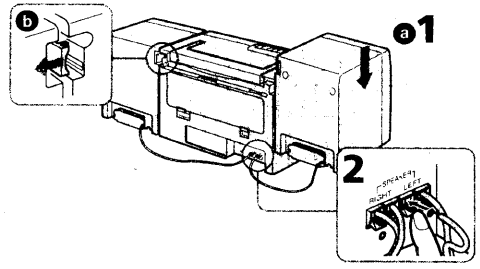
Note

When adjusting the 4 BAND GRAPHIC EQUALIZER, be sure to set the PRESET MODE to MANUAL. The graphic equalizer does not work in any other position.

Setting up the system

Connecting the Speakers

Make sure you turn off the power before making connections.



1 Align the grooves and slide the speaker box down until it snaps into place ⓐ.

2 Connect the black wires to (–) minus and the red wires to (+) plus terminals: the right speaker wires to the R (right), and the left speaker wires to the L (left) terminals.

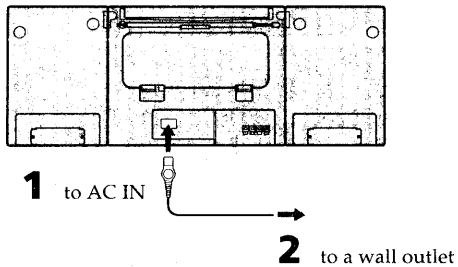
Tip

To detach the speakers, unlock the speaker ⓑ and slide the speaker box all the way up and away from the player.

Choosing Power Sources

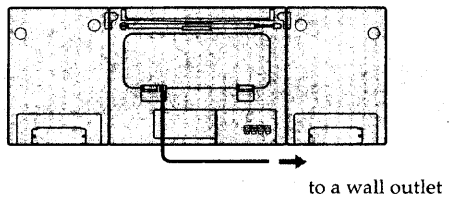
To use the player on AC power source
(AEP, IT, AUS model)

Connect the supplied AC power cord to the AC IN jack.



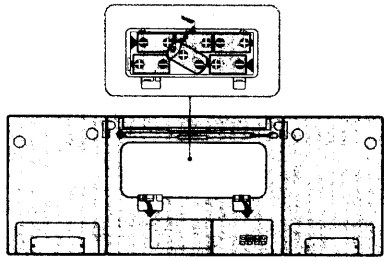
For other models

Open the battery compartment and take out the AC power cord, and close the battery compartment.



To use the player on batteries

Insert six size D (R20) batteries (not supplied) into the battery compartment.

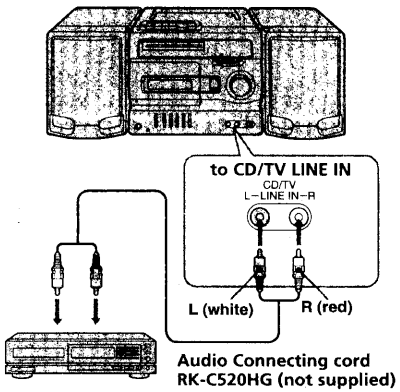


Notes

- To use the player on batteries, disconnect the AC power cord from the player. For the USA and Canadian models, keep the AC power cord in the battery compartment.
- Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones.

Connecting optional components

Before making connections, be sure to turn off the power of the component and set FUNCTION to TAPE/RADIO OFF on the player.



After connecting the component, set FUNCTION to CD/TV LINE IN and play the connected componnent.

Tip

You can record the sound of the connected component. Insert a cassette, and press ●

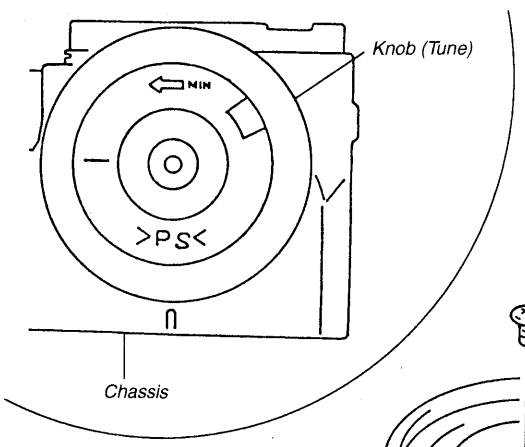
Note

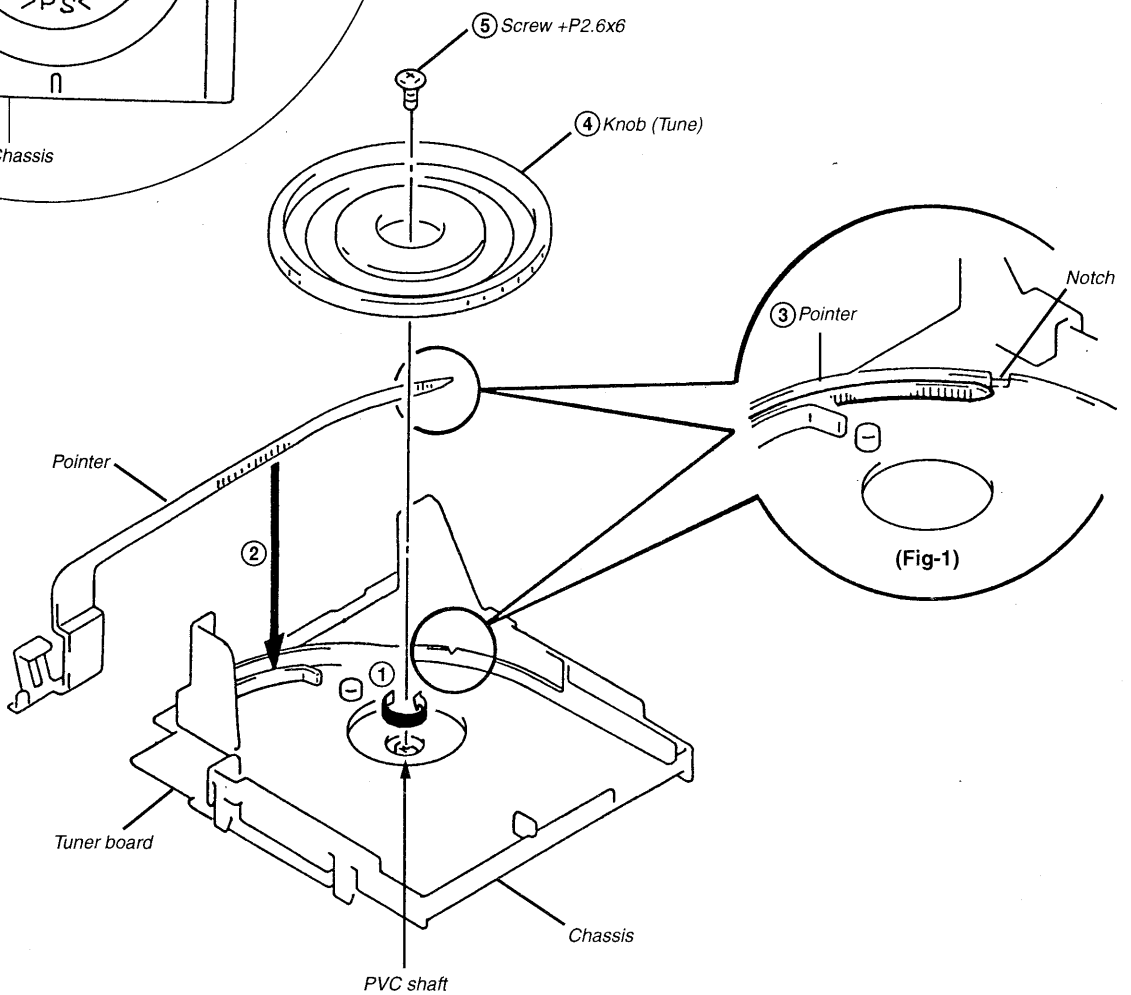
Connect the cables firmly to avoid any malfunction.

SECTION 2
DIAL POINTER INSTALLATION

Note : Follow the installation procedure in the numerical order given.

(Fig-2)





(Fig-1)

① *Turn the PVC shaft fully counterclockwise.*
② *Place the pointer in the chassis groove.*
③ *Line up the tip of the pointer with the notch in the chassis. (See Fig-1)*
④ *Attach so that the knob (Tune) is at the position shown in Fig-2.*

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　pinch roller
   erase head　rubber belts
   capstan　idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

1. Torque Measurement

Mode	Torque Meter	Meter Reading
Playback	CQ-102C	30 – 70g•cm (0.42 – 0.97 oz•inch)
Back Tension	CQ-102C	1.5 – 5.5g•cm (0.021– 0.076 oz•inch)
Rewind	CQ-201B	55 – 135g•cm (0.77– 1.87 oz•inch)
Fast Forward		

2. Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100g (3.53 oz)

3-2. ELECTRICAL ADJUSTMENTS

TAPE SECTION

1. The adjustments should be performed in the order given in the service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-CH and R-CH unless otherwise indicated.

- Switch location
  FUNCTION ..... TAPE (RADIO OFF)
  GRAPHIC EQUALIZER .. center click
  BALANCE ..... center click
  VOLUME..... mechanical center
  BASS BOOST ..... mechanical center

0 dB=0.775V

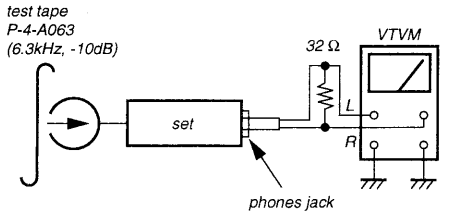
Test Tape

Type	Signal	Used for
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-A063	6.3kHz, – 10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment

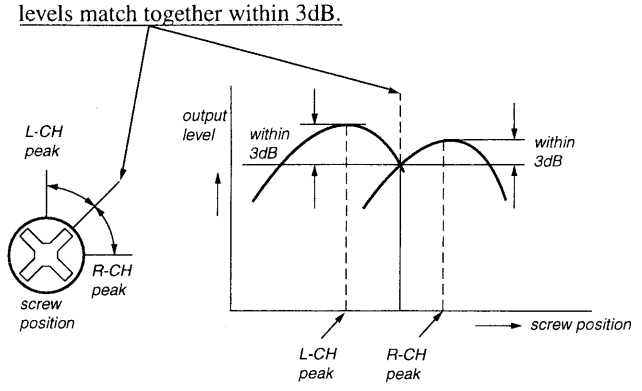
Record/Playback Head Azimuth Adjustment

Procedure :

1. Mode : playback

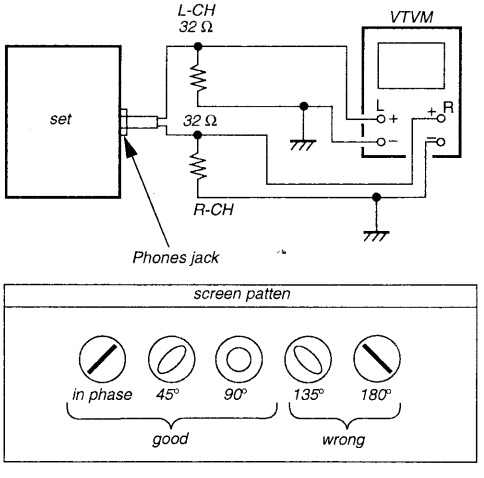


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 3dB.



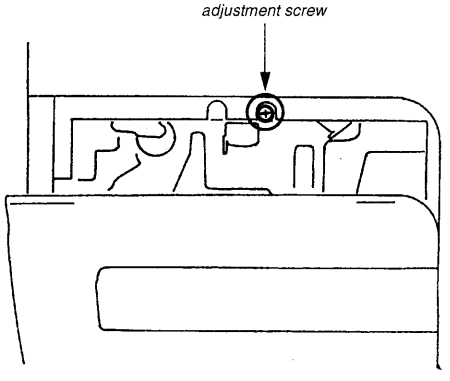
Phase Check

Mode : playback



3. After the adjustment, lock the screws with locking compound.

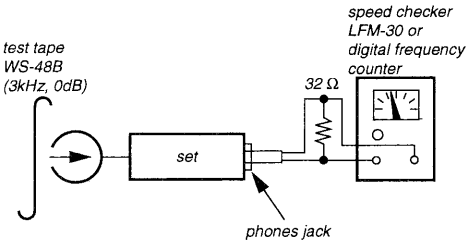
Adjustment Location :



Tape Speed Adjustment

Procedure :

Mode : playback

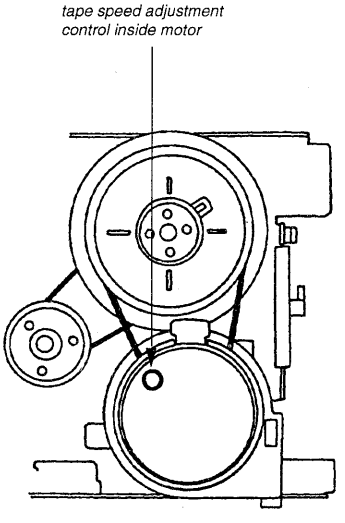


Adjustment Values :

Speed checker	Digital frequency counter
±3%	2,910 to 3,090Hz

Frequency difference between the begining and the end of the tape should be within 1 % (30Hz).

Adjustment Location :

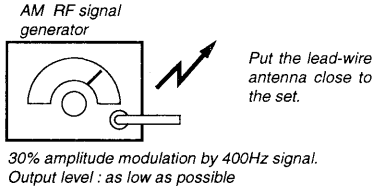


TUNER SECTION

- Switch location
  VOLUME ..... mechanical center
  BALANCE ..... center click
  BASS BOOST ..... center click
  GRAPHIC EQUALIZER ..... center click

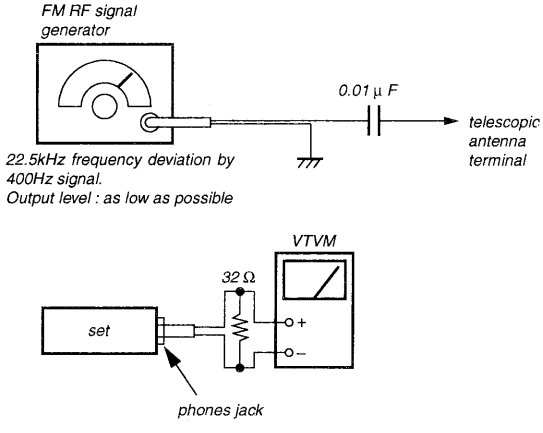
AM Section

FUNCTION SW: FM


AM RF signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400Hz signal.
Output level : as low as possible

FM Section

FUNCTION SW: FM
MONO/ST SW : STEREO (AEP, Italian model only)



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

no mark : US, Canadian, E, Australian model
( ) : AEP model
< > : Italian model

AM IF ALIGNMENT			
Adjust for a maximum reading on VTVM.			
T1	455kHz	(455kHz)	<455kHz>

AM FREQUENCY COVERAGE ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L4	520kHz	(520kHz)	<516kHz>
CT4	1,780kHz	(1,680kHz)	<1,630kHz>

AM TRACKING ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L3	600kHz	(600kHz)	<600kHz>
CT3	1,500kHz	(1,400kHz)	<1,400kHz>

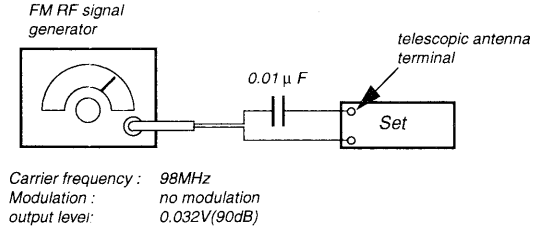
no mark : US, Canadian, E, Australian model
( ) : AEP model
< > : Italian model

FM FREQUENCY COVERAGE ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L2	86.5MHz	(87.0MHz)	<87.35MHz>
CT2	109.5MHz	(108.3MHz)	<108.25MHz>

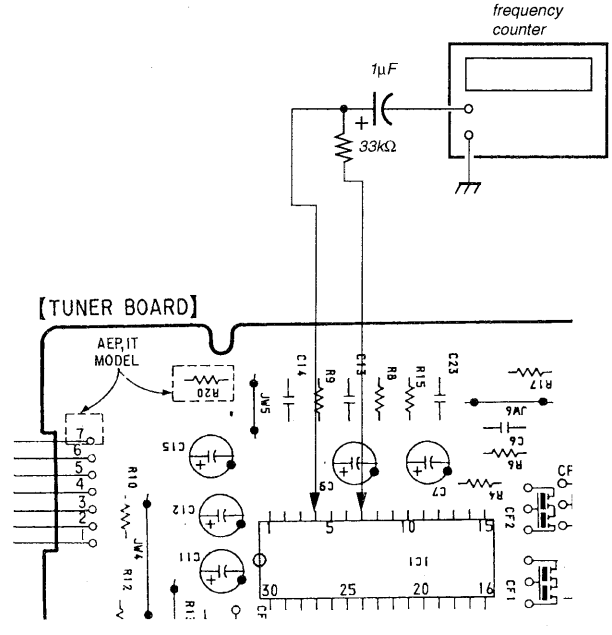
FM TRACKING ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L1	86.5MHz	(87.0MHz)	<87.35MHz>
CT1	109.5MHz	(108.3MHz)	<108.25MHz>

VCO Adjustment

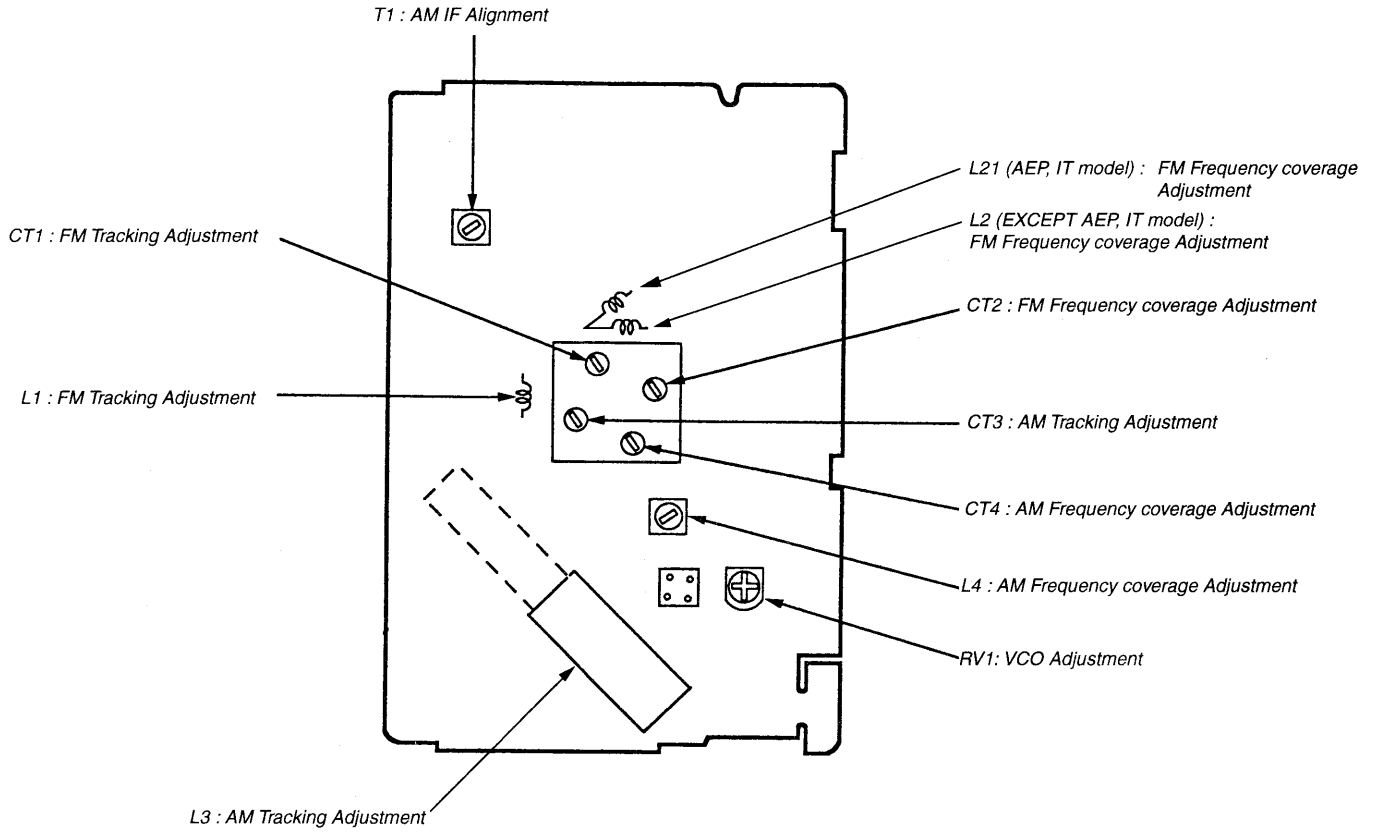
procedure :



1. Connect the frequency counter to ④ and ⑦ pins of IC1 as shown the figure below.
2. Turn the set to 98MHz.
3. Adjust RV1 for 76 kHz ±500 Hz reading on frequency counter.

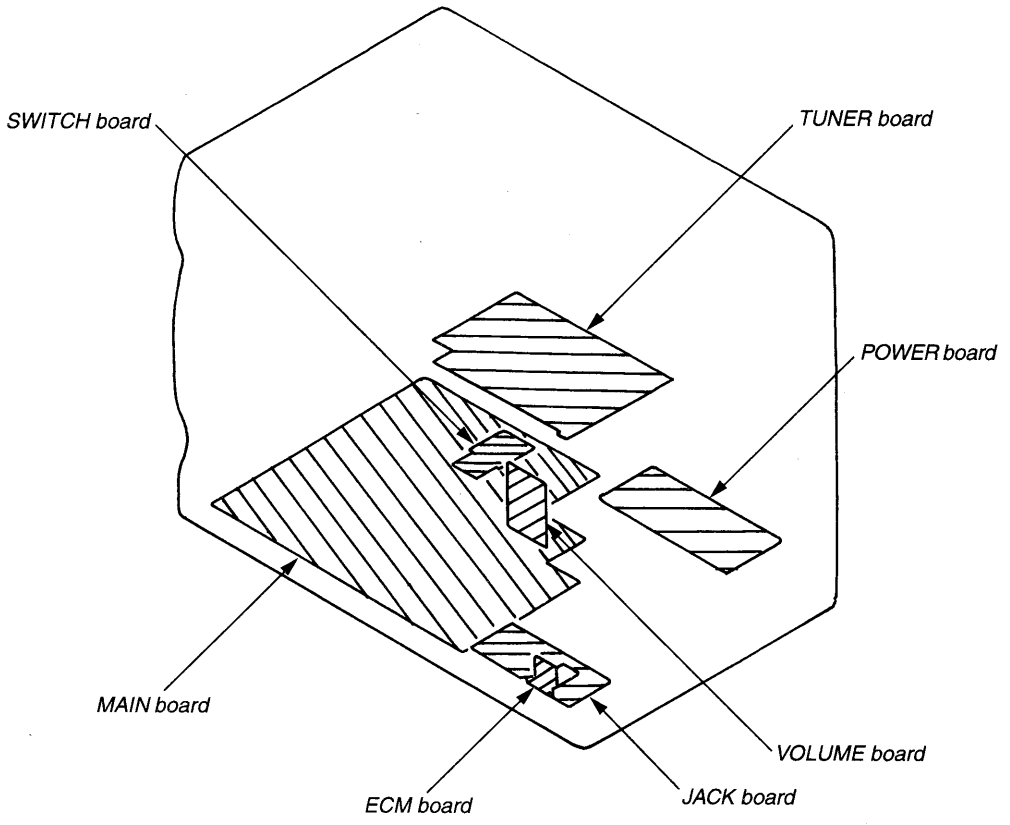


Adjustment Location : Tuner board (Component side)


T1 : AM IF Alignment
L21 (AEP, IT model) : FM Frequency coverage Adjustment
L2 (EXCEPT AEP, IT model) : FM Frequency coverage Adjustment
CT1 : FM Tracking Adjustment
CT2 : FM Frequency coverage Adjustment
L1 : FM Tracking Adjustment
CT3 : AM Tracking Adjustment
CT4 : AM Frequency coverage Adjustment
L4 : AM Frequency coverage Adjustment
RV1: VCO Adjustment
L3 : AM Tracking Adjustment

SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



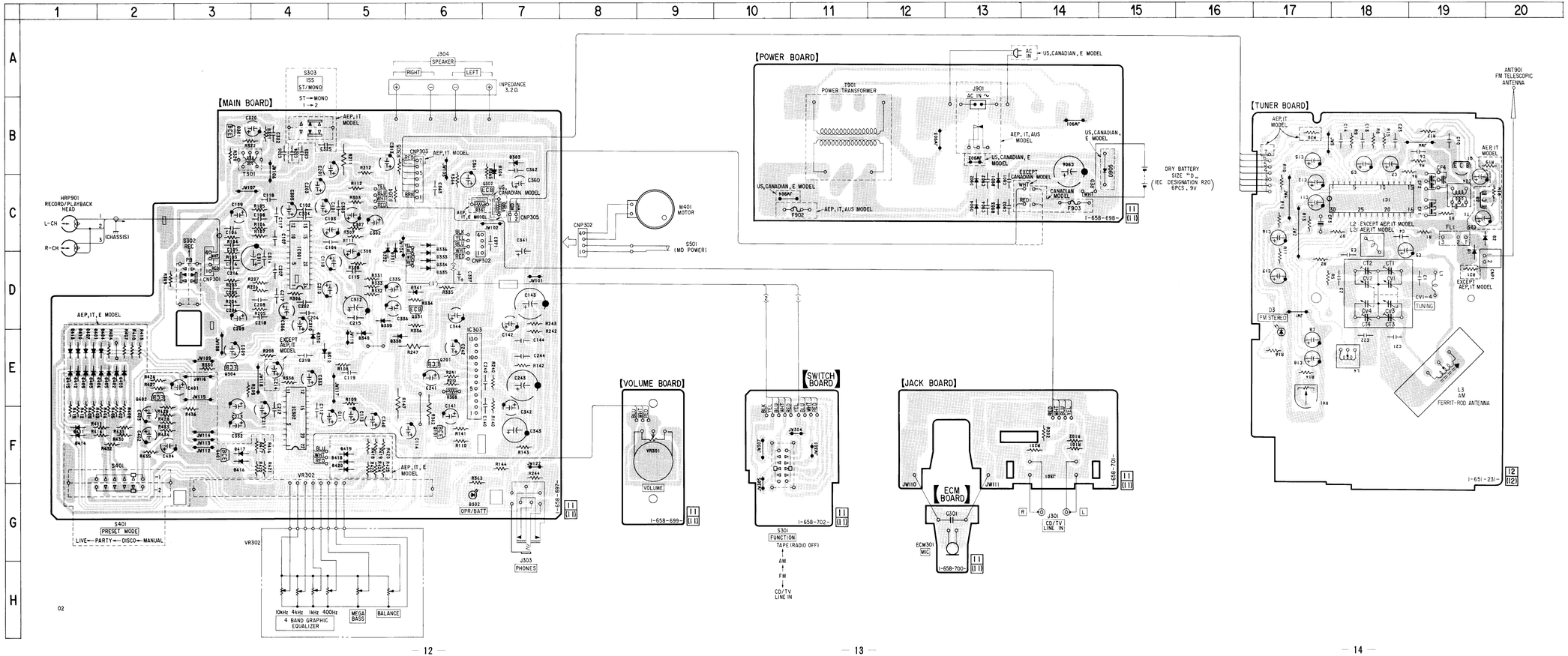
SECTION 4
DIAGRAMS

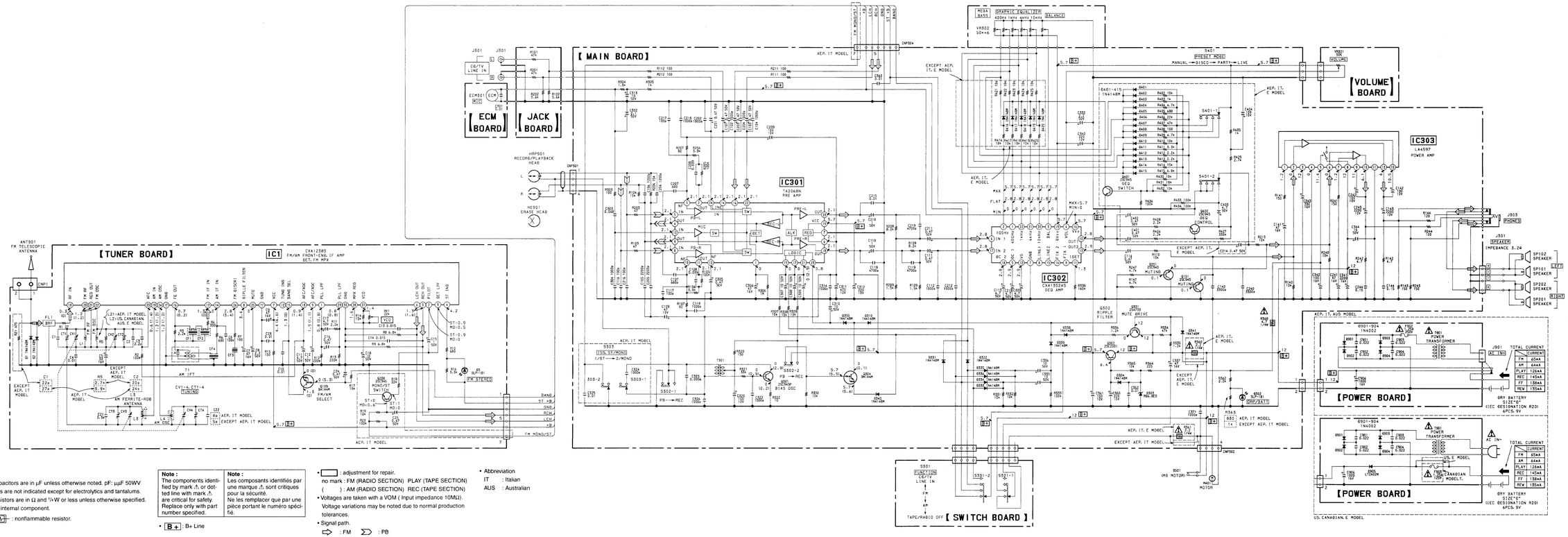
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D1	D-19	D413	E-1
D2	C-20	D414	F-1
D3	E-17	D415	E-1
D302	G-6	D416	F-3
D303	B-7	D417	F-3
D304	B-7	D418	F-5
D310	E-4	D419	F-5
D331	C-5	D420	F-5
D332	C-5	D901	C-13
D333	D-6	D902	C-13
D334	D-6	D903	C-13
D335	D-6	D904	C-13
D336	C-6	D905	B-15
D338	E-5		
D339	D-5	IC1	C-18
D340	E-5	IC301	C-4
D341	D-6	IC302	F-4
D350	E-4	IC303	E-6
D401	E-1		
D402	E-2	Q1	B-19
D403	E-1	Q2	C-19
D404	E-2	Q101	F-6
D405	E-2	Q201	E-6
D406	E-2	Q301	B-3
D407	E-1	Q302	C-7
D408	E-2	Q304	E-3
D409	E-1	Q331	D-6
D410	E-1	Q401	F-3
D411	F-1	Q402	E-2
D412	E-1		

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  IT : Italian
  AUS : Australian





Note :
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

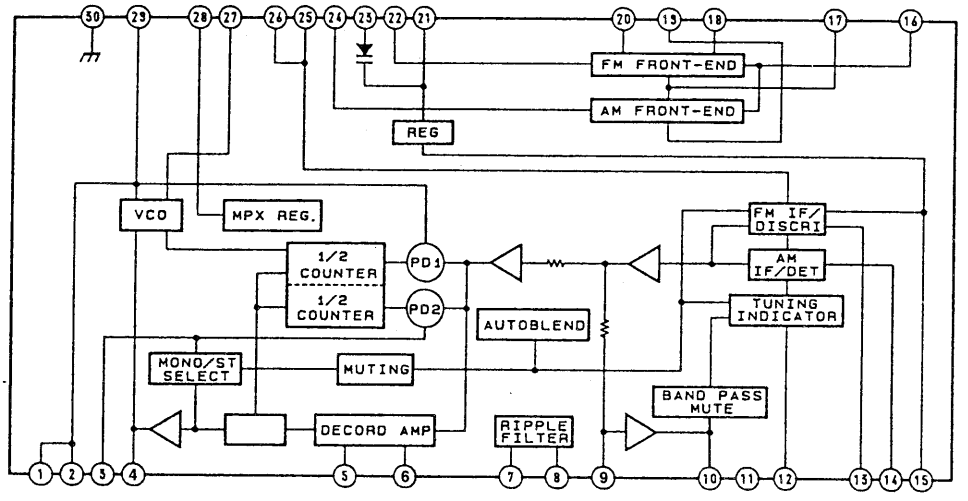
Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note :
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

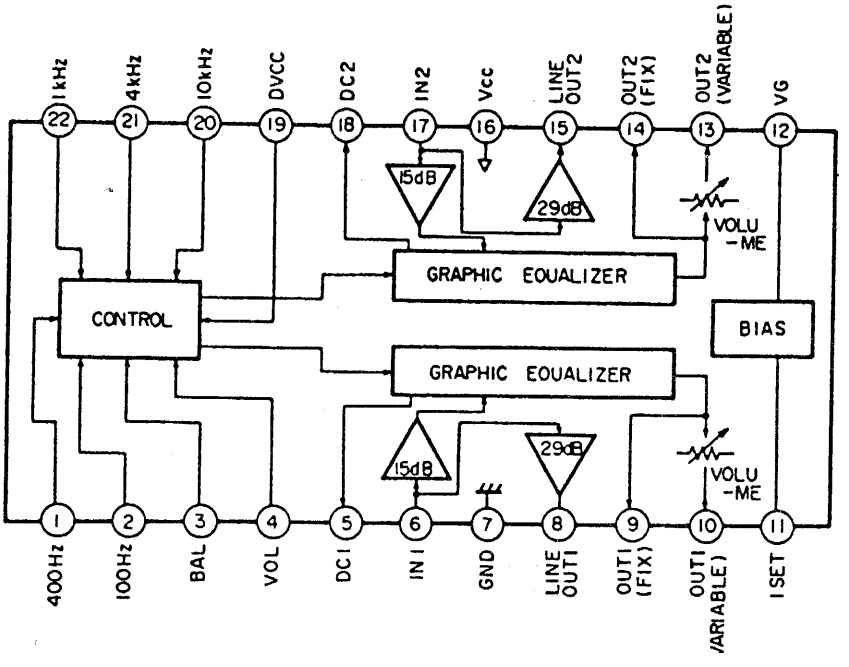
- B+ : B+ Line
- : adjustment for repair.
  no mark : FM (RADIO SECTION) PLAY (TAPE SECTION)
  ( ) : AM (RADIO SECTION) REC (TAPE SECTION)
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⋙ : PB
  ⋙ : REC
- Abbreviation
  IT : Italian
  AUS : Australian

• IC BLOCK DIAGRAMS

IC1 CXA1238S



IC302 CXA1352AS



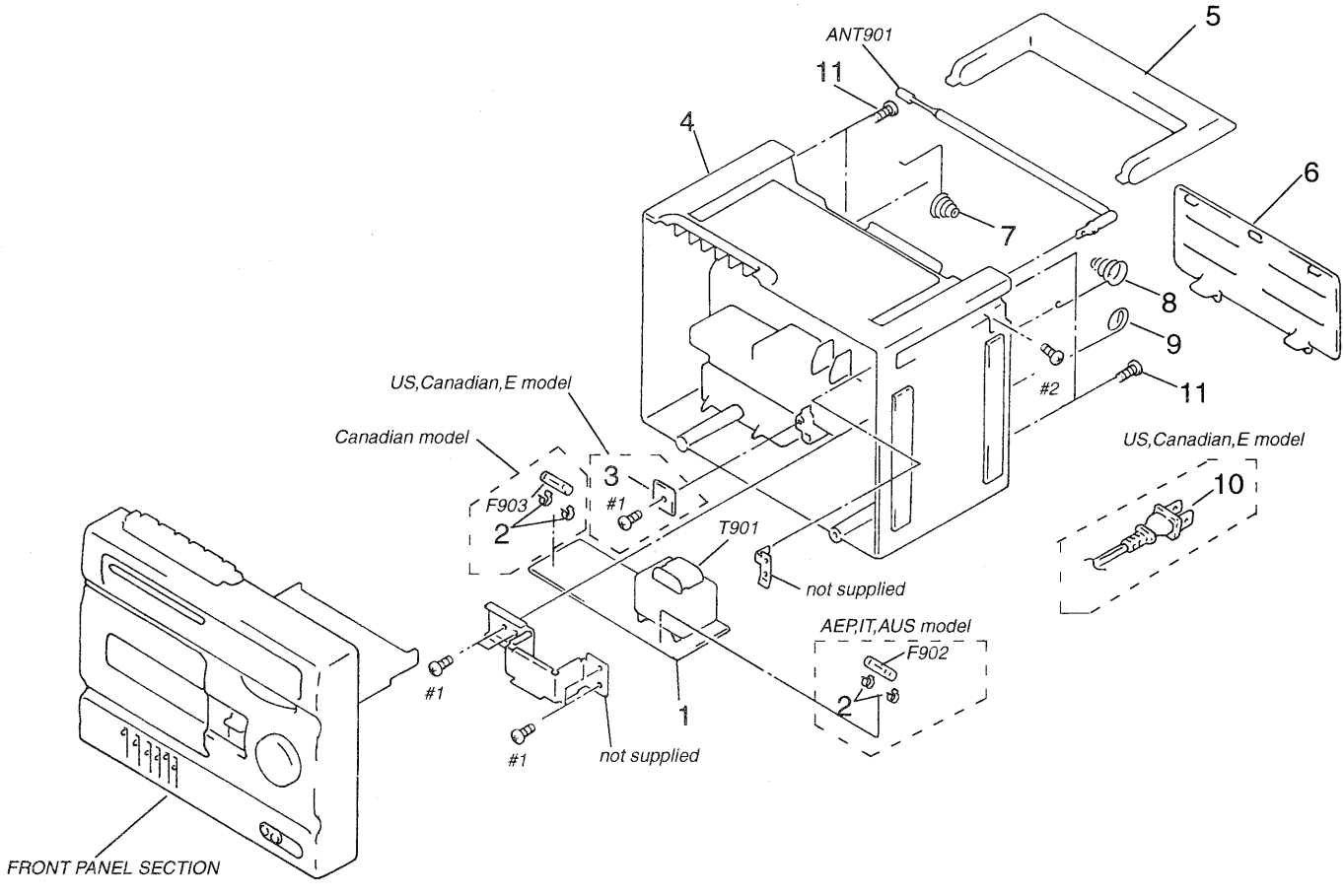
SECTION 5
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  IT : Italian
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

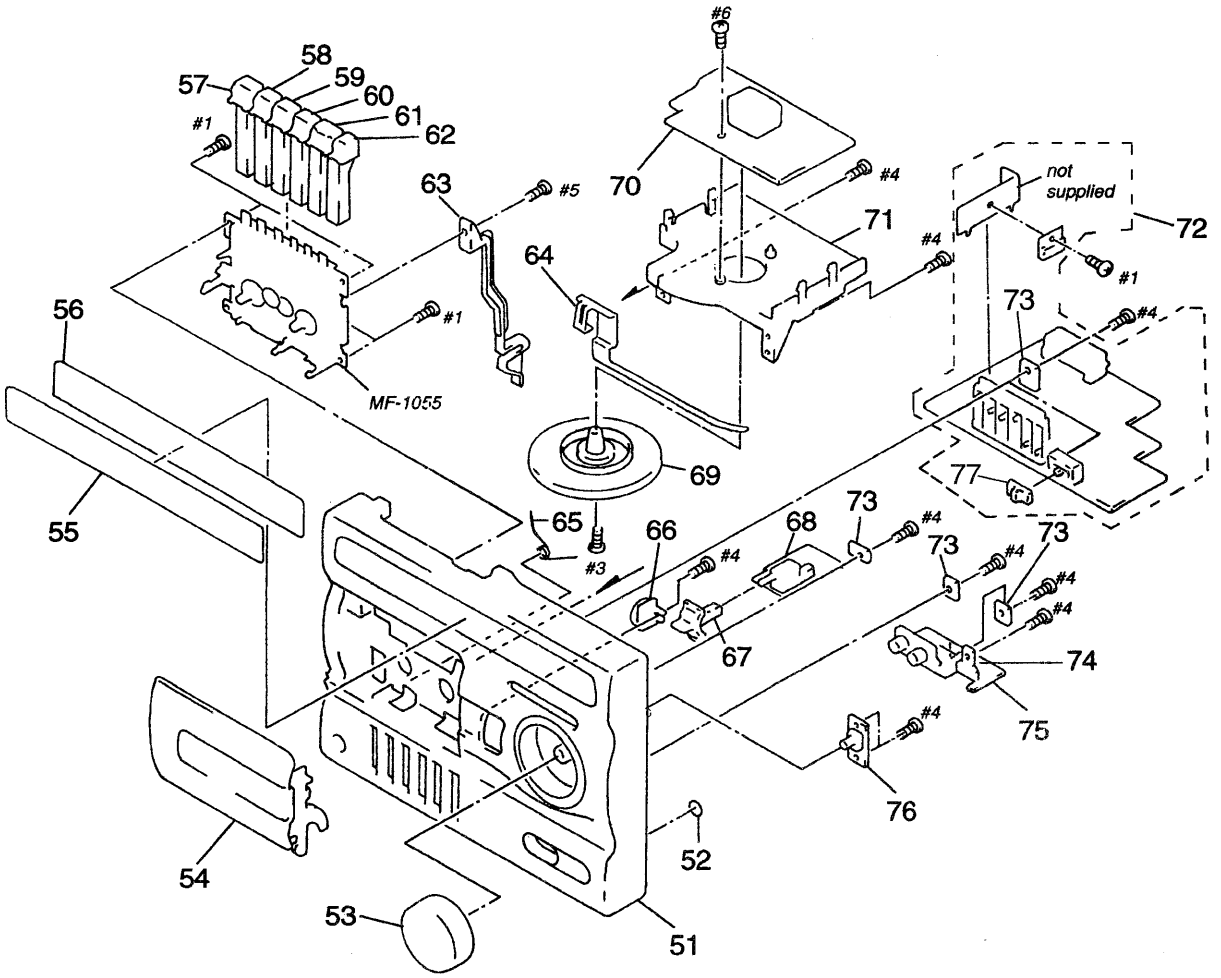
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. REAR CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 1	1-658-698-11	POWER BOARD	
2	1-533-217-31	HOLDER, FUSE (Canadian,AEP,IT,AUS)	
* 3	1-658-703-11	RETAINER BOARD (US,Canadian,E)	
4	3-930-876-01	CABINET (REAR) (US)	
4	3-930-876-21	CABINET (REAR) (AEP,IT)	
4	3-930-876-31	CABINET (REAR) (Canadian,E)	
4	3-930-876-51	CABINET (REAR) (AUS)	
5	3-930-878-01	HANDLE	
6	3-364-556-01	LID, BATTERY CASE	
7	3-364-532-01	TERMINAL (+, –), BATTERY	
8	3-930-901-01	SPRING (BATT –)	
9	3-930-900-01	SPRING (BATT +)	
⚠ 10	1-776-272-11	CORD, POWER (US,Canadian,E)	
⚠ 10	1-696-819-11	CORD, POWER (AUS)	
⚠ 10	1-696-820-21	CORD, POWER (AEP,IT)	
11	3-325-679-31	SCREW, TAPPING +BV 3X14	
ANT901	1-501-383-21	ANTENNA, TELESCOPIC	
⚠ T901	1-423-997-11	TRANSFORMER, POWER (US,Canadian,E)	
⚠ T901	1-423-995-11	TRANSFORMER, POWER (AEP,IT,AUS)	
⚠ F902	1-532-285-00	FUSE (1.25A)(AEP,IT,AUS)	
⚠ F903	1-533-417-11	FUSE, GLASS CYLINDRICAL (DIA.5) (1.25A/125V) (Canadian)	

5-2. FRONT PANEL SECTION



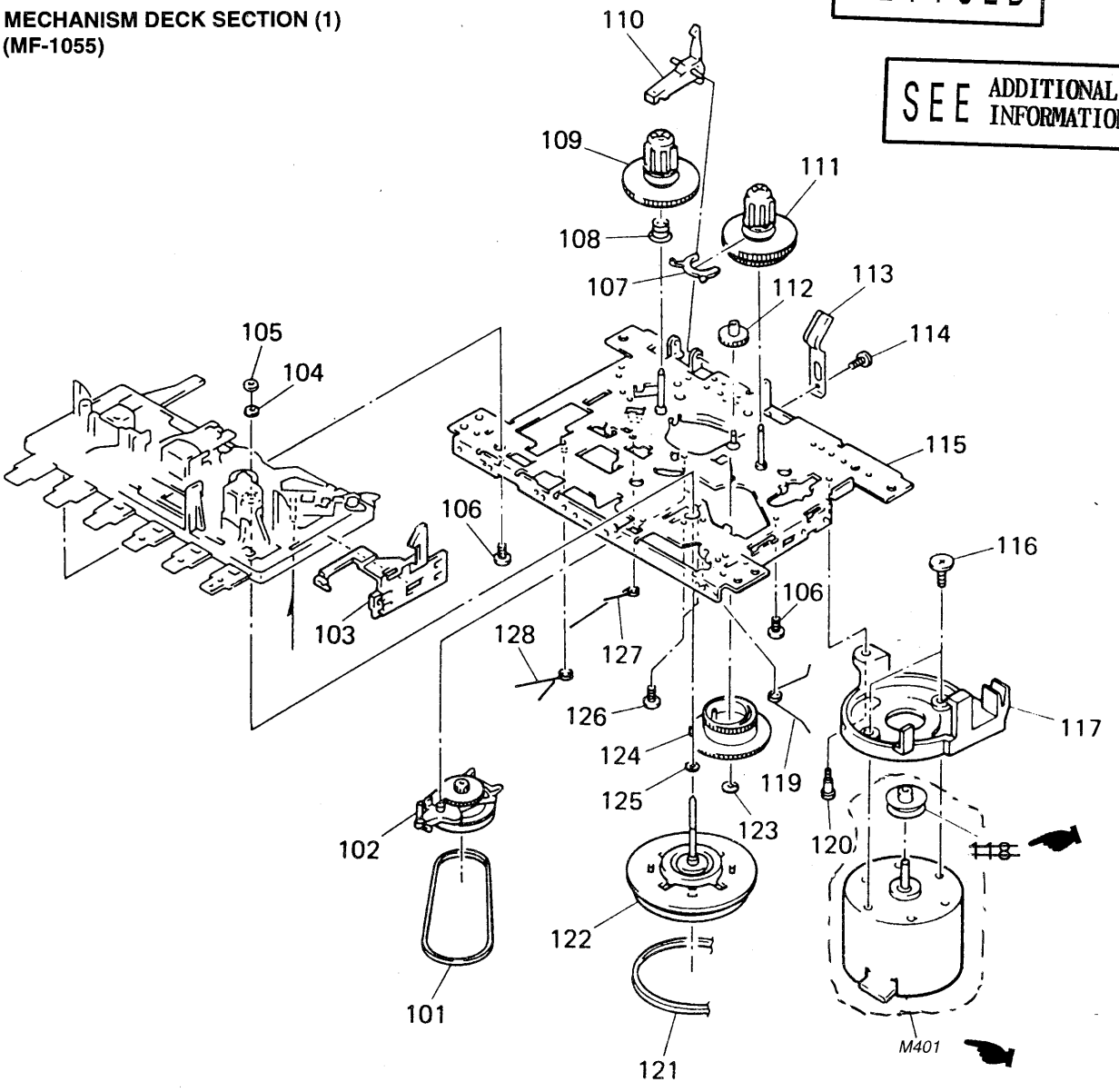
Ref. No.	Part No.	Description	Remark
51	3-930-875-01	CABINET (FRONT) (US,Canadian,AUS)	
51	3-930-875-11	CABINET (FRONT) (AEP,IT,E)	
52	3-366-963-01	CUSHION (MIC)	
53	3-364-526-01	KNOB (VOL)	
54	A-3304-151-A	HOLDER ASSY, CASSETTE (US,Canadian,AUS)	
54	A-3304-152-A	HOLDER ASSY, CASSETTE (AEP,IT,E)	
* 55	3-931-457-01	SHEET (D) (2 BAND), ADHESIVE	
56	3-930-898-01	WINDOW (2 BAND), SCALE (US,Canadian,AUS,E)	
56	3-930-898-11	WINDOW (2 BAND), SCALE (AEP)	
56	3-930-898-21	WINDOW (2 BAND), SCALE (IT)	
57	3-930-880-01	BUTTON (PAUSE), MD	
58	3-930-881-01	BUTTON (STOP/EJECT), MD	
59	3-930-882-01	BUTTON (FF), MD	
60	3-930-883-01	BUTTON (REW), MD	
61	3-930-884-01	BUTTON (PLAY), MD	
62	3-930-885-01	BUTTON (REC), MD	
63	3-930-890-01	LEVER (REC)	
64	3-930-886-01	POINTER	

Ref. No.	Part No.	Description	Remark
65	3-930-899-01	SPRING (CASSETTE)	
66	3-351-377-01	DAMPER	
67	3-930-888-01	KNOB (FUN)	
* 68	1-658-702-11	SWITCH BOARD	
69	3-930-887-01	KNOB (TUN)	
* 70	A-3269-045-A	TUNER BOARD, COMPLETE (US,Canadian,AUS,E)	
* 70	A-3269-116-A	TUNER BOARD, COMPLETE (AEP,IT)	
* 71	3-930-879-01	CHASSIS	
* 72	A-3305-490-A	MAIN BOARD, COMPLETE (US,Canadian,AUS)	
* 72	A-3305-491-A	MAIN BOARD, COMPLETE (AEP,IT)	
* 72	A-3305-829-A	MAIN BOARD, COMPLETE (E)	
* 73	1-658-703-11	RETAINER BOARD	
* 74	1-658-700-11	ECM BOARD	
* 75	1-658-701-11	JACK BOARD	
* 76	1-658-699-11	VOLUME BOARD	
77	3-930-889-01	KNOB (S-MODE) (AEP,IT,E)	

REVISED

SEE ADDITIONAL INFORMATION

5-3. MECHANISM DECK SECTION (1) (MF-1055)

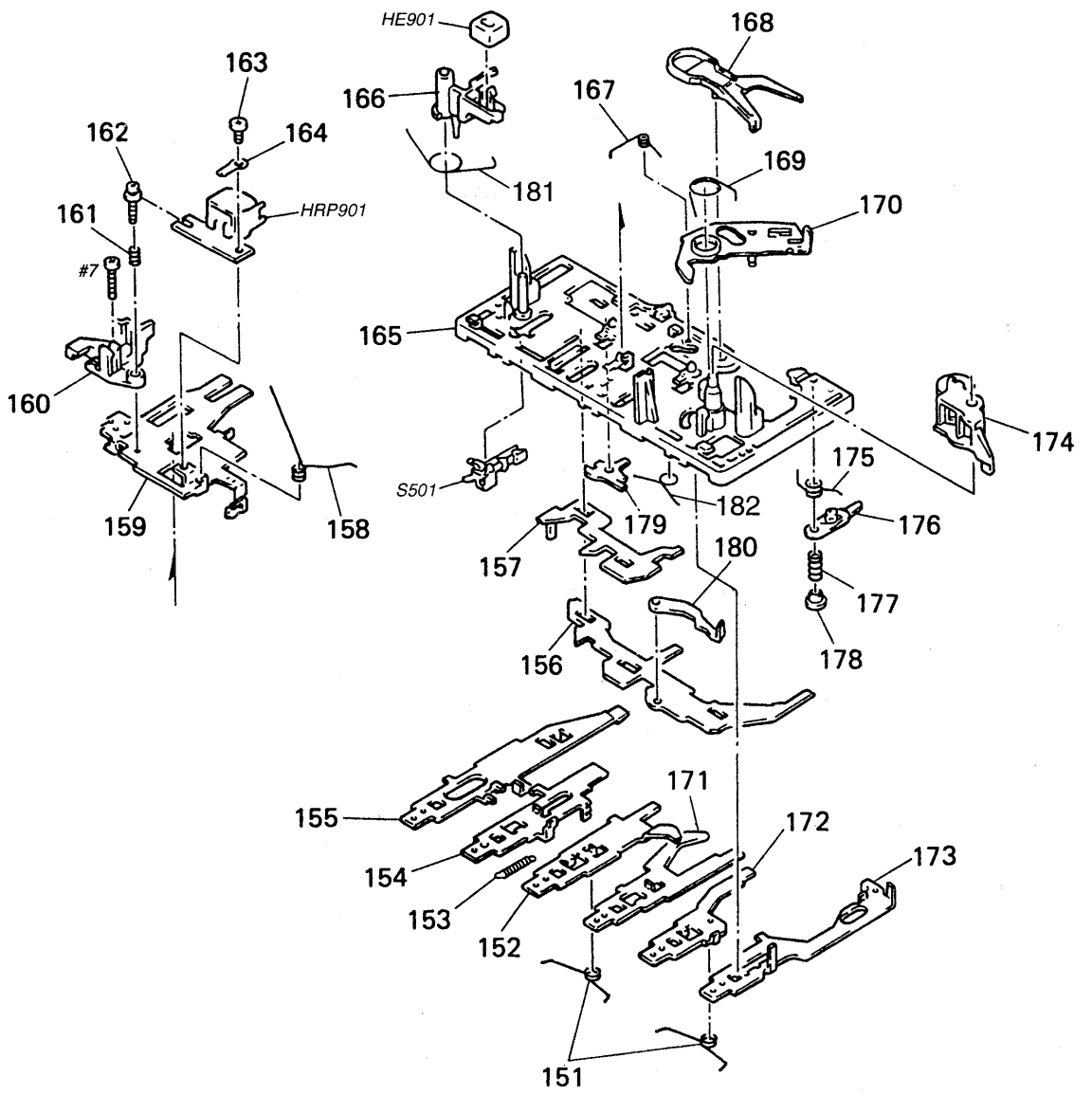


Ref. No.	Part No.	Description	Remark
101	3-596-931-01	BELT, RF	
102	3-913-441-01	CLUTCH ASSY, RF	
103	3-348-366-01	LEVER, EJECT SLIDE	
104	3-913-442-01	WASHER, POLY-SLIDER	
105	3-913-434-01	WASHER, POLY-SLIDER	
106	3-348-370-01	SCREW (M2X5), P TIGHT BIND	
107	3-348-380-01	SENSOR	
108	3-913-429-01	SPRING, BACK TENSION	
109	3-913-430-01	REEL ASSY, SUPPLY	
110	3-348-368-01	LEVER, REC SAFETY	
111	3-913-431-01	REEL ASSY, TAKE-UP	
112	3-348-357-01	GEAR, FF	
113	3-348-367-01	PLATE, SP, PACK RETAINER	
114	3-348-369-01	SCREW (M2X3), C TIGHT	
115	3-348-335-01	CHASSIS ASSY	

Ref. No.	Part No.	Description	Remark
116	3-598-855-01	MOTOR COLLER SCREW	
* 117	3-931-466-01	BRACKET, MOTOR	
~~118~~	~~3-395-984-01~~	~~PULLEY, MOTOR~~	
119	3-348-336-01	SPRING	
120	3-395-995-01	SCREW, MB	
121	3-913-432-01	BELT, MAIN	
122	3-348-356-01	FLYWHEEL ASSY	
123	3-348-373-01	WASHER, POLYETHYLENE SLIDER	
124	3-348-353-01	GEAR, CAM	
125	3-913-433-01	WASHER, POLY-SLIDER	
126	3-348-371-01	SCREW (M2X4.5), CAMERA TAPPING	
127	3-348-341-01	SPRING	
128	3-348-337-01	SPRING	
M401	X-3372-889-1	MOTOR ASSY	

SEE ADDITIONAL INFORMATION

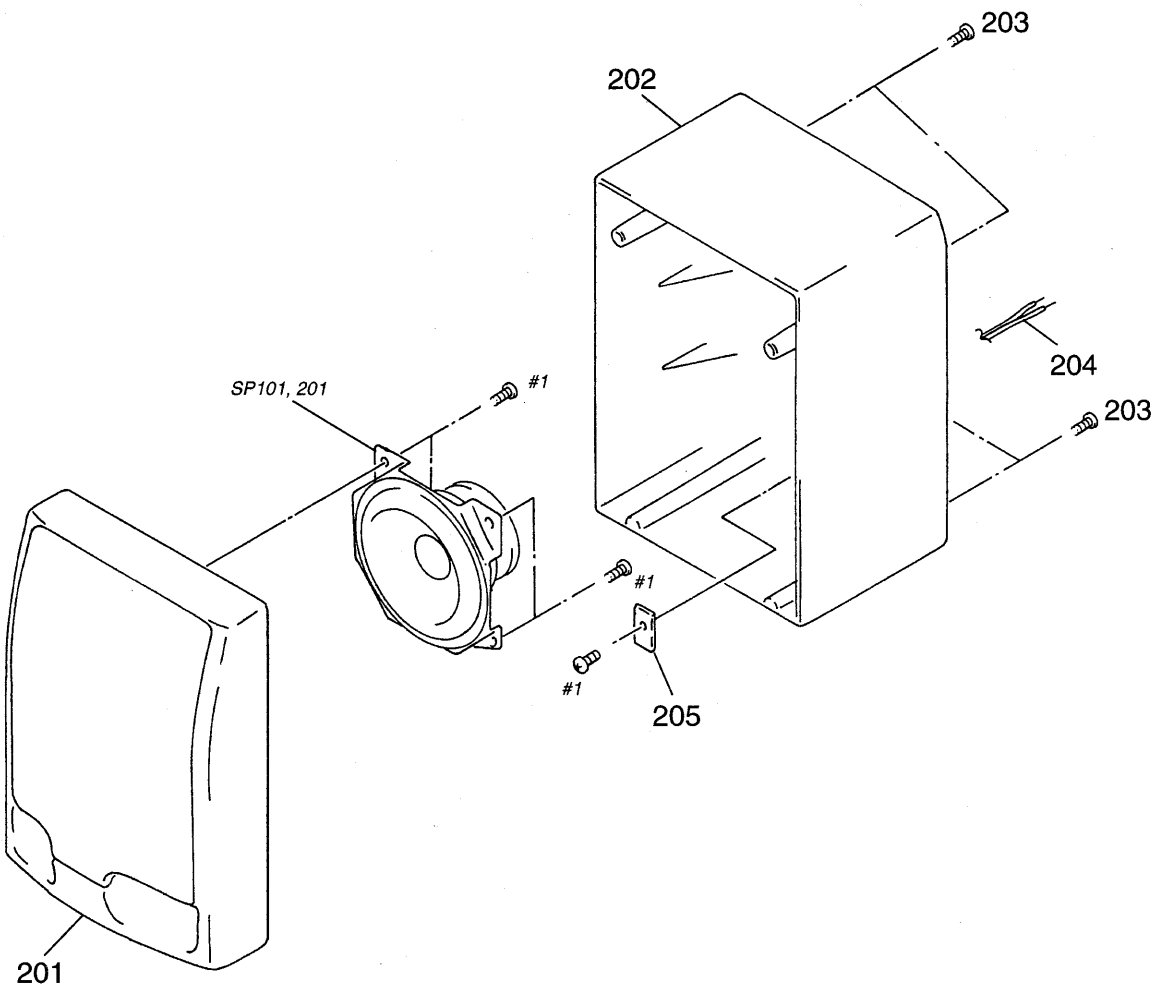
5-4. MECHANISM DECK SECTION (2) (MF-1055)



Ref. No.	Part No.	Description	Remark
151	3-348-334-01	SPRING (A)	
* 152	3-394-739-01	LEVER, REW BUTTON	
153	3-913-436-01	SPRING (S), PLAY BUTTON LEVER	
* 154	3-394-738-01	LEVER, PLAY BUTTON	
* 155	3-394-737-01	LEVER, REC BUTTON	
* 156	3-348-323-01	PLATE, FUNCTION, PUSH BUTTON	
* 157	3-348-322-01	PLATE, FUNCTION, SWITCH	
158	3-394-744-01	SPRING	
* 159	3-395-986-01	PANEL, HEAD	
160	3-348-344-11	BASE, HEAD	
161	3-598-845-01	SPRING	
162	3-394-749-01	SCREW (M2X7), AZIMUTH	
163	3-348-372-01	SCREW (M2X3), + BIND	
164	3-394-748-01	LUG (B3)	
165	3-348-347-01	CHASSIS (MOLD) ASSY	
166	3-348-346-01	ARM, MG	
167	3-913-437-01	SPRING, M CONTROLLER	

Ref. No.	Part No.	Description	Remark
168	3-913-439-01	LEVER, SENSING	
169	3-348-351-01	SPRING	
* 170	3-913-440-01	PLATE ASSY, GEAR	
* 171	3-394-740-01	LEVER, FF BUTTON	
* 172	3-394-741-01	LEVER, STOP BUTTON	
* 173	3-394-742-01	LEVER, PAUSE BUTTON	
174	3-913-438-01	ARM ASSY, PINCH ROLLER	
175	3-348-330-11	SPRING	
176	3-348-331-02	LEVER, PAUSE	
177	3-348-332-01	SPRING	
178	3-348-333-01	STOPPER, PAUSE	
179	3-348-340-01	STOPPER, PR	
* 180	3-348-339-01	LEVER, E KICK	
181	3-931-380-01	SPRING (B), BUTTON LEVER	
182	3-931-381-01	ARM (SP), MG	
HE901	1-500-311-11	HEAD, ERASE (ERASE)	
HRP901	1-500-312-11	HEAD, R/P (RECORD / PLAYBACK)	
S501	1-692-978-11	SWITCH, LEAF (POWER)	

5-5. SPEAKER SECTION



Ref. No.	Part No.	Description	Remark
201	3-930-892-01	CABINET (F/L), SP (L-CH)	
201	3-930-893-01	CABINET (F/R), SP (R-CH)	
202	3-930-894-01	CABINET (R/L), SP (L-CH)	
202	3-930-895-01	CABINET (R/R), SP (R-CH)	
203	3-325-679-31	SCREW, TAPPING +BV 3X14	

Ref. No.	Part No.	Description	Remark
204	1-690-969-11	CORD, SPEAKER CONNECTION	
* 205	1-658-703-11	RETAINER BOARD	
SP101	1-505-211-11	SPEAKER (10CM) (L-CH)	
SP201	1-505-211-11	SPEAKER (10CM) (R-CH)	

SECTION 6
ELECTRICAL PARTS LIST

ECM JACK MAIN

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  IT : Italian
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-658-700-11	ECM BOARD			
		**********			
		< CAPACITOR >			
C301	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< MICROPHONE >			
ECM301	1-542-118-11	MICROPHONE, ELECTRET CONDENSER (MIC)			
**********					
*	1-658-701-11	JACK BOARD			
		**********			
		< JACK >			
J301	1-563-716-21	JACK, PIN 2P (CD/TV LINE IN)			
		< RESISTOR >			
R101	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-249-426-11	CARBON	5.6K	5%	1/4W
R201	1-249-437-11	CARBON	47K	5%	1/4W
R202	1-249-426-11	CARBON	5.6K	5%	1/4W
**********					
*	A-3305-490-A	MAIN BOARD, COMPLETE (US,Canadian,AUS)			
*	A-3305-491-A	MAIN BOARD, COMPLETE (AEP,IT)			
*	A-3305-829-A	MAIN BOARD, COMPLETE (E)			
		**********			
	3-930-889-01	KNOB (S-MODE) (AEP,IT,E)			
		< CAPACITOR >			
C101	1-124-902-00	ELECT	0.47uF	20%	50V
C102	1-162-294-31	CERAMIC	0.001uF	10%	50V
C103	1-124-902-00	ELECT	0.47uF	20%	50V
C104	1-162-294-31	CERAMIC	0.001uF	10%	50V
C105	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C106	1-161-040-00	CERAMIC	0.0012uF	10%	16V
C107	1-162-292-31	CERAMIC	680PF	10%	50V
C108	1-161-020-11	CERAMIC	0.039uF	10%	16V
C109	1-124-443-00	ELECT	100uF	20%	10V
C110	1-124-903-11	ELECT	1uF	20%	50V
C111	1-124-902-00	ELECT	0.47uF	20%	50V
C112	1-162-294-31	CERAMIC	0.001uF	10%	50V
C113	1-126-963-11	ELECT	4.7uF	20%	50V
C114	1-124-902-00	ELECT	0.47uF	20%	50V
C115	1-162-306-11	CERAMIC	0.01uF	30%	16V
C116	1-162-282-31	CERAMIC	100PF	10%	50V
C117	1-162-282-31	CERAMIC	100PF	10%	50V
C118	1-162-294-31	CERAMIC	0.001uF	10%	50V
C119	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C140	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C141	1-104-664-11	ELECT	47uF	20%	16V
C142	1-124-443-00	ELECT	100uF	20%	10V
C143	1-126-927-11	ELECT	2200uF	20%	10V
C144	1-130-497-00	MYLAR	0.15uF	5%	50V
C201	1-124-902-00	ELECT	0.47uF	20%	50V
C202	1-162-294-31	CERAMIC	0.001uF	10%	50V
C203	1-124-902-00	ELECT	0.47uF	20%	50V
C204	1-162-294-31	CERAMIC	0.001uF	10%	50V
C205	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C206	1-161-040-00	CERAMIC	0.0012uF	10%	16V
C207	1-162-292-31	CERAMIC	680PF	10%	50V
C208	1-161-020-11	CERAMIC	0.039uF	10%	16V
C209	1-124-443-00	ELECT	100uF	20%	10V
C210	1-124-903-11	ELECT	1uF	20%	50V
C211	1-124-902-00	ELECT	0.47uF	20%	50V
C212	1-162-294-31	CERAMIC	0.001uF	10%	50V
C213	1-126-963-11	ELECT	4.7uF	20%	50V
C214	1-124-902-00	ELECT	0.47uF	20%	50V (EXCEPT AEP,IT)
C215	1-162-306-11	CERAMIC	0.01uF	30%	16V
C216	1-162-282-31	CERAMIC	100PF	10%	50V
C217	1-162-282-31	CERAMIC	100PF	10%	50V
C218	1-162-294-31	CERAMIC	0.001uF	10%	50V
C219	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C240	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C241	1-104-664-11	ELECT	47uF	20%	16V
C242	1-124-443-00	ELECT	100uF	20%	10V
C243	1-126-927-11	ELECT	2200uF	20%	10V
C244	1-130-497-00	MYLAR	0.15uF	5%	50V
C302	1-126-956-11	ELECT	0.1uF	20%	50V
C303	1-162-849-11	CERAMIC	0.068uF	10%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C304	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C305	1-124-902-00	ELECT	0.47uF	20% 50V	
C306	1-104-664-11	ELECT	47uF	20% 16V	
C307	1-124-907-11	ELECT	10uF	20% 50V	
C308	1-124-907-11	ELECT	10uF	20% 50V	
C309	1-124-907-11	ELECT	10uF	20% 50V	
C310	1-124-907-11	ELECT	10uF	20% 50V	
C311	1-124-472-11	ELECT	470uF	20% 10V	
C312	1-104-666-11	ELECT	220uF	20% 10V	
C313	1-124-907-11	ELECT	10uF	20% 50V	
C314	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C320	1-124-443-00	ELECT	100uF	20% 10V	
C322	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C323	1-130-480-00	MYLAR	0.0056uF	5% 50V	
C324	1-162-294-31	CERAMIC	0.001uF	10% 50V	(AEP,IT)
C325	1-162-306-11	CERAMIC	0.01uF	30% 16V	(AEP,IT)
C326	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C332	1-126-961-11	ELECT	2.2uF	20% 50V	
C333	1-126-963-11	ELECT	4.7uF	20% 50V	
C335	1-124-907-11	ELECT	10uF	20% 50V	
C336	1-124-907-11	ELECT	10uF	20% 50V	
C337	1-104-664-11	ELECT	47uF	20% 16V	
C340	1-104-666-11	ELECT	220uF	20% 10V	
C341	1-124-556-11	ELECT	2200uF	20% 16V	
C342	1-124-445-11	ELECT	100uF	20% 16V	
C343	1-124-119-11	ELECT	330uF	20% 16V	
C344	1-124-907-11	ELECT	10uF	20% 50V	
C360	1-104-666-11	ELECT	220uF	20% 10V	
C361	1-124-443-00	ELECT	100uF	20% 10V	
C362	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C363	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C371	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C401	1-124-902-00	ELECT	0.47uF	20% 50V	(AEP,IT,E)
C402	1-124-902-00	ELECT	0.47uF	20% 50V	(AEP,IT,E)
C403	1-126-963-11	ELECT	4.7uF	20% 50V	(AEP,IT,E)
C404	1-124-443-00	ELECT	100uF	20% 10V	(AEP,IT,E)
		< CONNECTOR >			
CNP301	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP302	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP303	1-580-159-11	PIN, CONNECTOR (PC BOARD) 7P(AEP,IT,E)			
* CNP304	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P(US,Canadian)			
* CNP305	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D302	8-719-038-29	LED	SLP-181B-51 (OPR/BATT)		
D303	8-719-109-97	DIODE	RD6.8ES-B2		

Ref. No.	Part No.	Description		Remark
D304	8-719-987-63	DIODE	1N4148M	
D310	8-719-987-63	DIODE	1N4148M	
D331	8-719-987-63	DIODE	1N4148M	
D332	8-719-987-63	DIODE	1N4148M	
D333	8-719-987-63	DIODE	1N4148M	
D334	8-719-987-63	DIODE	1N4148M	
D335	8-719-987-63	DIODE	1N4148M	
D336	8-719-987-63	DIODE	1N4148M	
D338	8-719-987-63	DIODE	1N4148M	
D339	8-719-987-63	DIODE	1N4148M	
D340	8-719-987-63	DIODE	1N4148M	
D341	8-719-987-63	DIODE	1N4148M	
D350	8-719-987-63	DIODE	1N4148M	
D401	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D402	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D403	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D404	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D405	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D406	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D407	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D408	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D409	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D410	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D411	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D412	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D413	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D414	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D415	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D416	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D417	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D418	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D419	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
D420	8-719-987-63	DIODE	1N4148M (AEP,IT,E)	
		< IC >		
IC301	8-759-264-71	IC	TA2068N	
IC302	8-752-067-34	IC	CXA1352AS	
IC303	8-759-820-22	IC	LA4597	
		< JACK >		
J303	1-566-891-12	JACK (PHONES)		
J304	1-537-330-11	TERMINAL BOARD (SPEAKER)		
		< TRANSISTOR >		
Q101	8-729-194-57	TRANSISTOR	2SC945-P	
Q201	8-729-194-57	TRANSISTOR	2SC945-P	
Q301	8-729-194-57	TRANSISTOR	2SC945-P	
Q302	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2	
Q304	8-729-900-61	TRANSISTOR	DTA114ES	
Q331	8-729-141-03	TRANSISTOR	2SA733-QP	
Q401	8-729-194-57	TRANSISTOR	2SC945-P (AEP,IT,E)	
Q402	8-729-194-57	TRANSISTOR	2SC945-P (AEP,IT,E)	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R103	1-249-401-11	CARBON	47	5%	1/4W
R104	1-249-431-11	CARBON	15K	5%	1/4W
R105	1-249-441-11	CARBON	100K	5%	1/4W
R106	1-249-424-11	CARBON	3.9K	5%	1/4W
R107	1-249-404-00	CARBON	82	5%	1/4W
R108	1-249-428-11	CARBON	8.2K	5%	1/4W
R109	1-249-419-11	CARBON	1.5K	5%	1/4W
R110	1-249-429-11	CARBON	10K	5%	1/4W
R111	1-247-807-31	CARBON	100	5%	1/4W
R112	1-247-807-31	CARBON	100	5%	1/4W
R140	1-249-429-11	CARBON	10K	5%	1/4W
R141	1-249-407-11	CARBON	150	5%	1/4W
R142	1-249-389-11	CARBON	4.7	5%	1/4W
R143	1-249-407-11	CARBON	150	5%	1/4W
R144	1-249-406-11	CARBON	120	5%	1/4W
R147	1-249-425-11	CARBON	4.7K	5%	1/4W
R203	1-249-401-11	CARBON	47	5%	1/4W
R204	1-249-431-11	CARBON	15K	5%	1/4W
R205	1-249-441-11	CARBON	100K	5%	1/4W
R206	1-249-424-11	CARBON	3.9K	5%	1/4W
R207	1-249-404-00	CARBON	82	5%	1/4W
R208	1-249-428-11	CARBON	8.2K	5%	1/4W
R209	1-249-419-11	CARBON	1.5K	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-247-807-31	CARBON	100	5%	1/4W
R212	1-247-807-31	CARBON	100	5%	1/4W
R240	1-249-429-11	CARBON	10K	5%	1/4W
R241	1-249-407-11	CARBON	150	5%	1/4W
R242	1-249-389-11	CARBON	4.7	5%	1/4W
R243	1-249-407-11	CARBON	150	5%	1/4W
R244	1-249-406-11	CARBON	120	5%	1/4W
R247	1-249-425-11	CARBON	4.7K	5%	1/4W
R303	1-247-807-31	CARBON	100	5%	1/4W
R304	1-249-420-11	CARBON	1.8K	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-247-903-00	CARBON	1M	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-429-11	CARBON	10K	5%	1/4W
R320	1-249-407-11	CARBON	150	5%	1/4W
R321	1-249-435-11	CARBON	33K	5%	1/4W
R322	1-249-393-11	CARBON	10	5%	1/4W
R330	1-249-429-11	CARBON	10K	5%	1/4W
R331	1-249-429-11	CARBON	10K	5%	1/4W
R332	1-249-429-11	CARBON	10K	5%	1/4W
R333	1-249-441-11	CARBON	100K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-249-418-11	CARBON	1.2K	5%	1/4W
R336	1-249-418-11	CARBON	1.2K	5%	1/4W
R338	1-247-884-11	CARBON	160K	5%	1/4W

Ref. No.	Part No.	Description		Remark
⚠ R360	1-249-385-11	CARBON	2.2	5% 1/6W F (AEP,IT,E)
⚠ R361	1-249-385-11	CARBON	2.2	5% 1/6W F (AEP,IT,E)
R362	1-249-416-11	CARBON	820	5% 1/4W
R362	1-249-421-11	CARBON	2.2K	5% 1/4W (AUS,E)
R363	1-249-417-11	CARBON	1K	5% 1/4W (EXCEPT AEP,IT)
R363	1-249-416-11	CARBON	820	5% 1/4W (AEP,IT)
R364	1-247-815-91	CARBON	220	5% 1/4W
R365	1-249-429-11	CARBON	10K	5% 1/4W
⚠ R368	1-249-389-11	CARBON	4.7	5% 1/4W F
R402	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R403	1-249-417-11	CARBON	1K	5% 1/4W (AEP,IT,E)
R404	1-249-425-11	CARBON	4.7K	5% 1/4W (AEP,IT,E)
R405	1-249-415-11	CARBON	680	5% 1/4W (AEP,IT,E)
R406	1-247-863-91	CARBON	22K	5% 1/4W (AEP,IT,E)
R407	1-249-437-11	CARBON	47K	5% 1/4W (AEP,IT,E)
R408	1-247-807-31	CARBON	100	5% 1/4W (AEP,IT,E)
R409	1-249-425-11	CARBON	4.7K	5% 1/4W (AEP,IT,E)
R410	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R411	1-249-423-11	CARBON	3.3K	5% 1/4W (AEP,IT,E)
R412	1-249-421-11	CARBON	2.2K	5% 1/4W (AEP,IT,E)
R413	1-249-421-11	CARBON	2.2K	5% 1/4W (AEP,IT,E)
R414	1-249-431-11	CARBON	15K	5% 1/4W (AEP,IT,E)
R415	1-249-427-11	CARBON	6.8K	5% 1/4W (AEP,IT,E)
R416	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R417	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R418	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R419	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R420	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R421	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)
R422	1-249-429-11	CARBON	10K	5% 1/4W (AEP,IT,E)

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MAIN POWER SWITCH TUNER

Ref. No.	Part No.	Description			Remark
R423	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,IT,E)
R424	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,IT,E)
R425	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,IT,E)
R426	1-249-421-11	CARBON	2.2K	5% 1/4W	(AEP,IT,E)
R427	1-247-891-00	CARBON	330K	5% 1/4W	(AEP,IT,E)
R428	1-249-421-11	CARBON	2.2K	5% 1/4W	(AEP,IT,E)
R429	1-249-422-11	CARBON	2.7K	5% 1/4W	(AEP,IT,E)
R430	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,IT,E)
R431	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,IT,E)
R432	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,IT,E)
R433	1-249-441-11	CARBON	100K	5% 1/4W	(AEP,IT,E)
R434	1-249-441-11	CARBON	100K	5% 1/4W	(AEP,IT,E)
R435	1-249-417-11	CARBON	1K	5% 1/4W	(AEP,IT,E)
R436	1-249-441-11	CARBON	100K	5% 1/4W	(AEP,IT,E)
		< SWITCH >			
S302	1-762-565-11	SWITCH, SLIDE (REC/PB)			
S303	1-692-181-11	SWITCH, SLIDE (ISS,ST/MONO)(AEP,IT)			
S401	1-762-539-11	SWITCH, SLIDE (PRESET MODE)(AEP,IT,E)			
		< TRANSFORMER >			
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR			
		< VARIABLE RESISTOR >			
VR302	1-223-574-11	RES, VAR, SLIDE 50KX6 (BALANCE,MEGABASS,GRAPHIC EQUALIZER)			

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*	1-658-698-11	POWER BOARD			
		**********			
	1-533-217-31	HOLDER, FUSE (Canadian,AEP,IT,AUS)			
		< CAPACITOR >			
C901	1-101-005-00	CERAMIC	22000PF		50V
C902	1-101-005-00	CERAMIC	22000PF		50V
C903	1-101-005-00	CERAMIC	22000PF		50V
C904	1-101-005-00	CERAMIC	22000PF		50V
C906	1-126-942-61	ELECT	1000uF	20%	16V

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D901	8-719-200-02	DIODE 10E2	
D902	8-719-200-02	DIODE 10E2	
D903	8-719-200-02	DIODE 10E2	
D904	8-719-200-02	DIODE 10E2	
D905	8-719-979-32	DIODE RL202-M11 (US,Canadian,E)	
		< FUSE >	
⚠ F902	1-532-285-00	FUSE, TIME LAG (T1.25A / 250V) (AEP,IT,AUS)	
⚠ F903	1-533-417-11	FUSE, GLASS CYLINDRICAL(DIA.5) (1.25A/125V)(Canadian)	
		< JACK >	
⚠ J901	1-526-838-11	INLET, AC 2P (AC IN~)(AEP,IT,AUS)	
		< TRANSFORMER >	
⚠ T901	1-423-995-11	TRANSFORMER, POWER (AEP,IT,AUS)	
⚠ T901	1-423-997-11	TRANSFORMER, POWER (US,Canadian,E)	

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*	1-658-702-11	SWITCH BOARD	
		**********	
	3-366-963-01	CUSHION (MIC)	
	3-930-888-01	KNOB (FUN)	
		< SWITCH >	
S301	1-571-476-21	SWITCH, LEVER SLIDE (FUNCTION)	

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*	A-3269-045-A	TUNER BOARD, COMPLETE (US,Canadian,AUS,E)	
*	A-3269-116-A	TUNER BOARD, COMPLETE (AEP,IT)	
		**********	
		< CAPACITOR >	

C1	1-162-207-31	CERAMIC	22PF	5%	50V (US,Canadian,AUS,E)
C1	1-162-209-31	CERAMIC	27PF	5%	50V (AEP,IT)
C2	1-102-958-00	CERAMIC	20PF	5%	50V (US,Canadian,AUS,E)
C2	1-102-960-00	CERAMIC	24PF	5%	50V (AEP,IT)
C3	1-162-191-31	CERAMIC	2.2PF	10%	50V
C4	1-162-306-11	CERAMIC	0.01uF	30%	16V
C5	1-104-663-11	ELECT	33uF	20%	16V
C6	1-162-282-31	CERAMIC	100PF	10%	50V
C7	1-104-664-11	ELECT	47uF	20%	16V
C8	1-126-961-11	ELECT	2.2uF	20%	50V
C9	1-104-664-11	ELECT	47uF	20%	16V
C10	1-162-306-11	CERAMIC	0.01uF	30%	16V
C11	1-126-963-11	ELECT	4.7uF	20%	50V
C12	1-124-903-11	ELECT	1uF	20%	50V

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Ref. No.	Part No.	Description			Remark
C13	1-161-053-00	CERAMIC	0.015uF	10%	50V
C14	1-161-053-00	CERAMIC	0.015uF	10%	50V
C15	1-124-903-11	ELECT	1uF	20%	50V
C16	1-124-902-00	ELECT	0.47uF	20%	50V
C17	1-126-963-11	ELECT	4.7uF	20%	50V
C18	1-124-907-11	ELECT	10uF	20%	50V
C21	1-162-193-31	CERAMIC	3.3PF	10%	50V
C22	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V (US,Canadian,AUS,E)
C22	1-102-945-00	CERAMIC	8.0PF	+-0.5PF	50V (AEP,IT)
C23	1-162-306-11	CERAMIC	0.01uF	30%	16V
C24	1-124-902-00	ELECT	0.47uF	20%	50V
C25	1-124-902-00	ELECT	0.47uF	20%	50V (AEP,IT)
		< FILTER >			
CF1	1-577-327-81	FILTER, CERAMIC			
CF2	1-577-327-81	FILTER, CERAMIC			
CF3	1-577-327-81	FILTER, CERAMIC			
CF4	1-527-870-00	FILTER			
		< CONNECTOR >			
* CNP1	1-580-163-11	PIN, CONNECTOR (PC BOARD) 2P			
		< TRIMMER >			
CT1-4	1-151-696-11	CAP, VAR (US,Canadian,AUS,E)			
CT1-4	1-141-484-11	CAP, VAR (AEP,IT)			
		< DIODE >			
D1	8-719-987-63	DIODE 1N4148M			
D2	8-719-987-63	DIODE 1N4148M			
D3	8-719-038-29	LED SLP-181B-51 (FM STEREO)			
		< FILTER >			
FL1	1-236-022-11	FILTER, BAND PASS			
		< IC >			
IC1	8-752-050-20	IC CXA1238S			
		< COIL >			
L1	1-422-317-31	COIL, AIR-CORE			
L2	1-422-230-11	COIL, AIR-CORE (US,Canadian,AUS,E)			
L3	1-402-416-11	ANTENNA, FERRITE-ROD (MW) (US,Canadian,AUS,E)			
L3	1-402-158-11	ANTENNA, FERRITE-ROD (MW)(AEP,IT)			
L4	1-406-040-00	COIL (OSC)			
L21	1-460-205-31	COIL (WITH CORE) (AEP,IT)			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q1	8-729-900-80	TRANSISTOR DTC114ES			
Q2	8-729-194-57	TRANSISTOR 2SC945-P (AEP,IT)			
		< RESISTOR >			
R1	1-249-398-11	CARBON	27	5%	1/4W
R2	1-249-441-11	CARBON	100K	5%	1/4W
R3	1-249-421-11	CARBON	2.2K	5%	1/4W
R4	1-249-411-11	CARBON	330	5%	1/4W
R5	1-249-422-11	CARBON	2.7K	5%	1/4W (US,Canadian,AUS,E)
R5	1-249-424-11	CARBON	3.9K	5%	1/4W (AEP,IT)
R6	1-249-415-11	CARBON	680	5%	1/4W
R7	1-247-807-31	CARBON	100	5%	1/4W
R8	1-249-427-11	CARBON	6.8K	5%	1/4W
R9	1-249-427-11	CARBON	6.8K	5%	1/4W
R10	1-249-415-11	CARBON	680	5%	1/4W
R11	1-249-421-11	CARBON	2.2K	5%	1/4W
R12	1-247-887-00	CARBON	220K	5%	1/4W
R13	1-247-887-00	CARBON	220K	5%	1/4W
R14	1-249-429-11	CARBON	10K	5%	1/4W
R15	1-249-407-11	CARBON	150	5%	1/4W
R16	1-249-423-11	CARBON	3.3K	5%	1/4W
R17	1-249-429-11	CARBON	10K	5%	1/4W
R18	1-247-863-91	CARBON	22K	5%	1/4W (AEP,IT)
R19	1-249-429-11	CARBON	10K	5%	1/4W (AEP,IT)
R20	1-249-441-11	CARBON	100K	5%	1/4W (AEP,IT)
R21	1-249-413-11	CARBON	470	5%	1/4W (US,Canadian,AUS,E)
		< VARIABLE RESISTOR >			
RV1	1-223-641-11	RES, ADJ, CARBON 22K (VCO)			
		< TRANSFORMER >			
T1	1-404-341-00	TRANSFORMER, IF			
**********					
*	1-658-699-11	VOLUME BOARD			
		**********			
		< VARIABLE RESISTOR >			
VR301	1-241-374-11	RES, VAR, CARBON 50K (VOLUME)			
**********					
		MISCELLANEOUS			
		**********			
2	1-533-217-31	HOLDER, FUSE (Canadian,AEP,IT,AUS)			
⚠ 10	1-696-819-11	CORD, POWER (AUS)			

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
⚠ 10	1-696-820-21	CORD, POWER (AEP,IT)	
⚠ 10	1-776-272-11	CORD, POWER (US,Canadian,E)	
204	1-690-969-11	CORD, SPEAKER CONNECTION	
ANT901	1-501-383-21	ANTENNA, TELESCOPIC	
⚠ F902	1-532-285-00	FUSE, TIME LAG (T1.25A / 250V) (AEP,IT,AUS)	
⚠ F903	1-533-417-11	FUSE, GLASS CYLINDRICAL(DIA.5) (1.25A / 125V)(Canadian)	
HE901	1-500-311-11	HEAD, ERASE (ERASE)	
HRP901	1-500-312-11	HEAD, R/P (RECORD / PLAYBACK)	
M401	1-698-694-11	MOTOR (9B)	
S501	1-692-978-11	SWITCH, LEAF (POWER)	
SP101	1-505-211-11	SPEAKER (10CM) (L-CH)	
SP201	1-505-211-11	SPEAKER (10CM) (R-CH)	

****

ACCESSORIES & PACKING MATERIALS
****

	3-810-746-11	MANUAL, INSTRUCTION (ENGLISH) (US,Canadian,AUS,E)	
	3-810-746-21	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-810-746-31	MANUAL, INSTRUCTION(ENGLISH/GERMAN) (AEP)	
	3-810-746-41	MANUAL, INSTRUCTION(FRENCH/SPANISH) (AEP)	
	3-810-746-51	MANUAL, INSTRUCTION (DUTCH/SWEDISH) (AEP)	
	3-810-746-61	MANUAL, INSTRUCTION (POLISH)(AEP)	
	3-810-746-71	MANUAL, INSTRUCTION (ITALIAN)(IT)	
	3-810-746-91	MANUAL, INSTRUCTION (SPANISH)(E)	
*	3-931-175-01	INDIVIDUAL CARTON (US)	
*	3-931-176-01	INDIVIDUAL CARTON (AEP,IT)	
*	3-932-458-01	INDIVIDUAL CARTON (Canadian)	
*	3-931-208-01	CUSHION (TOP)	
*	3-931-209-01	CUSHION (BOTTOM)	
*	3-932-458-01	INDIVIDUAL CARTON (AUS)	
*	3-932-459-01	INDIVIDUAL CARTON (E)	

****

****
HARDWARE LIST
****

#1	7-685-647-79	SCREW,TAPPING +BV 3X10
#2	7-682-548-09	SCREW +P 3X8
#3	7-621-770-67	SCREW +P 2.6X6
#4	7-685-135-19	SCREW,TOTSU PTPWH 2.6X10,TYPE2
#5	7-621-255-25	SCREW +BVTT 2X4(S)
#6	7-685-646-79	SCREW,TAPPING +BV 3X8
#7	7-621-255-45	SCREW +P 2X6

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

9-960-504-11
(Including 9-960-504-91)

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Quality Engineering Dept.

CFS-1055

SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
Australian Model
E Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

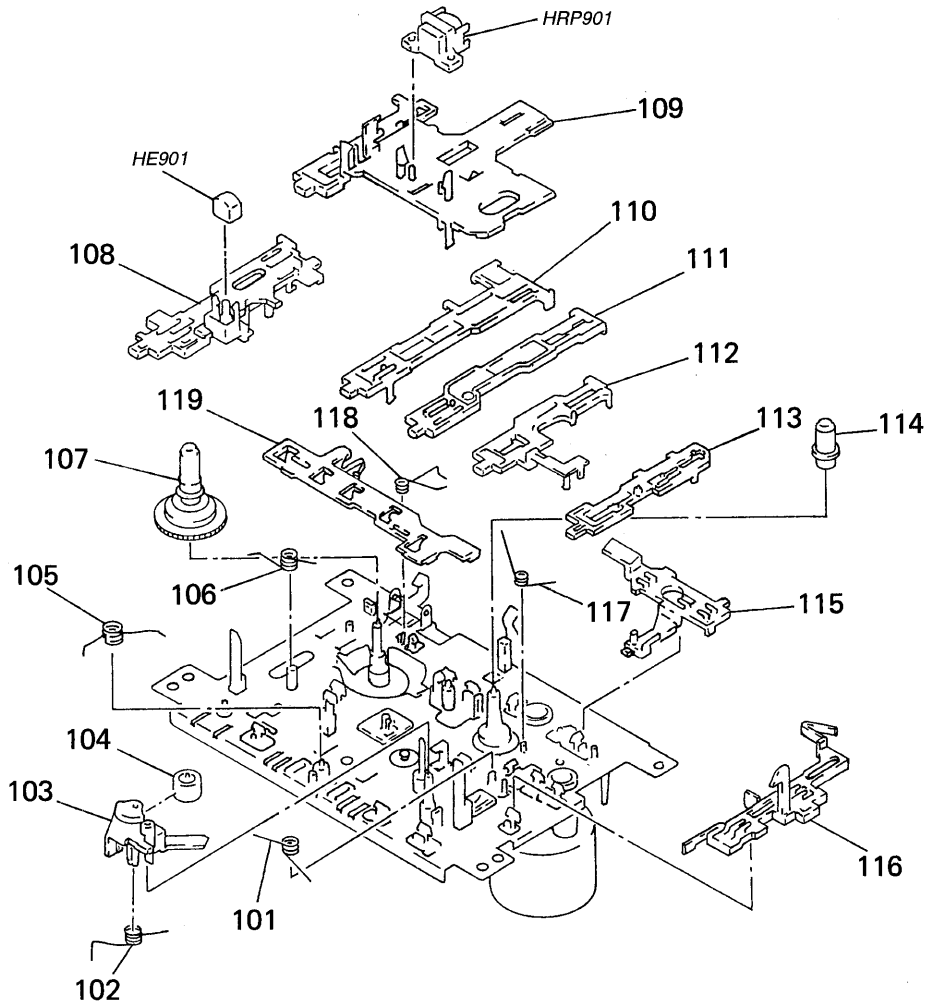
Subject :
Change of Tape Transport Mechanism

The tape transport mechanism has been changed.
Exploded views of new type, and changed parts list are described in this Supplement-1.
Refer to original service manual previously issued for the other information.

	Tape Transport Mechanism Type	Serial Number
Former Type	MF-1055	————————
New Type	MF-1055-117	1,210,151～

EXPLODED VIEWS (Service Manual see page 22)

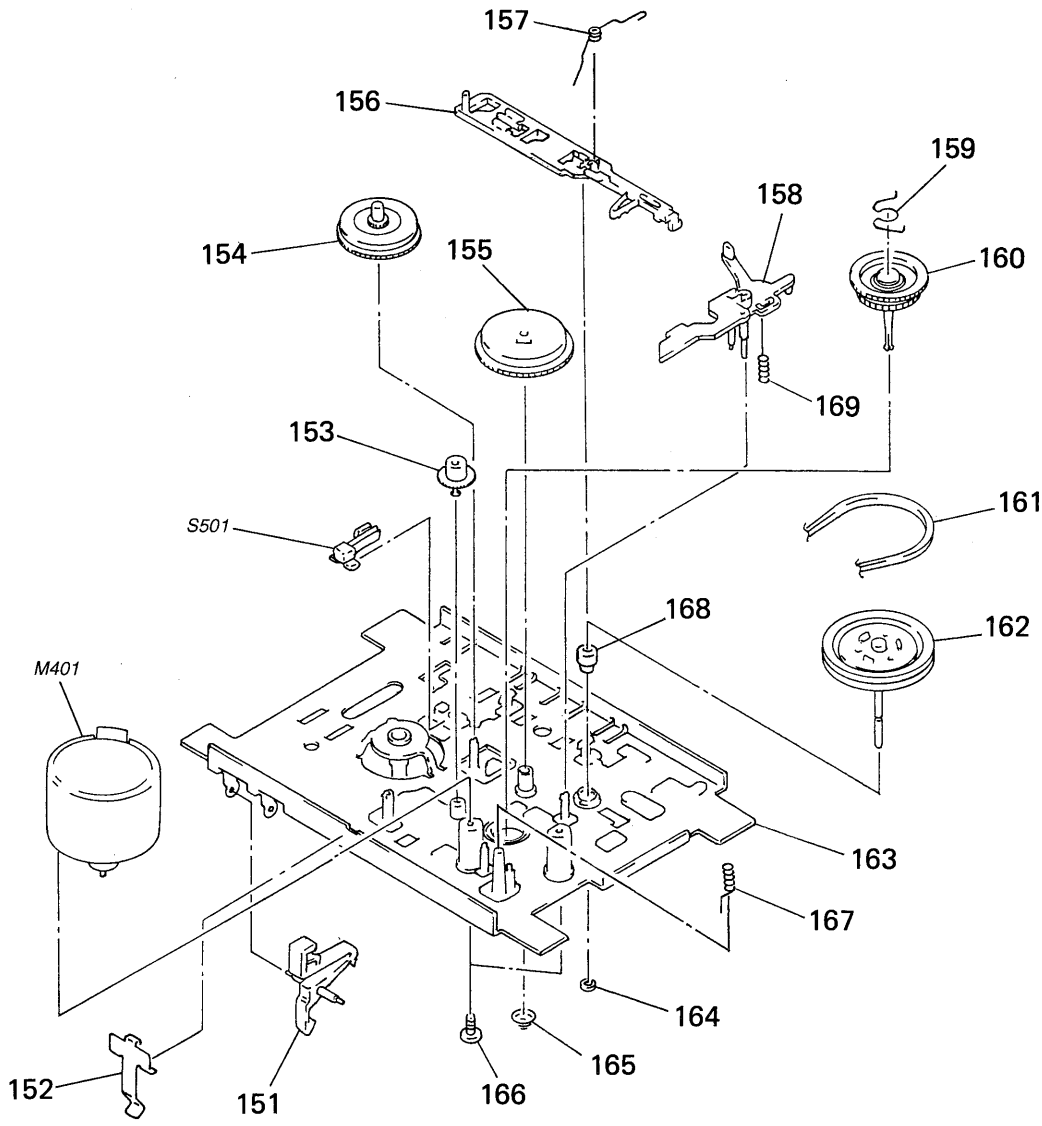
1. MECHANISM DECK SECTION (1)
(MF-1055-117)



Ref. No.	Part No.	Description	Remark
101	3-933-010-01	SPRING (S/P), TORSION	
102	3-933-025-01	SPRING (P), TORSION	
103	3-933-026-01	LEVER (P)	
104	3-933-024-01	ROLLER, PINCH	
105	3-933-019-01	SPRING (F/R), TORSION	
106	3-933-028-01	SPRING (FWD), TORSION	
107	3-933-016-01	GEAR (S REEL)	
108	3-933-023-01	SLIDER (REC)	
109	3-933-000-01	BASE (S), HEAD	
* 110	3-933-017-01	SLIDER (REW)	
* 111	3-933-018-01	SLIDER (FF)	
* 112	3-933-009-01	SLIDER (STOP)	
* 113	3-933-008-01	SLIDER (PAUSE)	
114	3-933-004-01	CLAW, REEL	
* 115	3-933-021-01	SLIDER (FRP)	
116	3-933-006-01	SLIDER (EJECT)	
117	3-934-833-01	SPRING (FRP)	
118	3-934-834-01	SPRING (BT)	
* 119	3-933-007-01	PLATE, LOCK	
HE901	1-543-876-11	HEAD (ERASE)	
HRP901	1-500-364-11	HEAD,MAGNETIC (RECORD/PLAYBACK)	

(Service Manual see page 23)

2. MECHANISM DECK SECTION (2) (MF-1055-117)



Ref. No.	Part No.	Description	Remark
151	3-933-029-01	LEVER, ERASING PREVENTION	
152	3-933-182-01	SPRING, CASSETTE	
153	3-932-995-01	GEAR (MID)	
154	X-3371-667-1	CLUTCH ASSY	
155	3-932-997-01	GEAR (CAM)	
* 156	3-932-999-01	SLIDER (SW)	
157	3-932-998-01	SPRING (GROUND), TORSION	
158	3-932-996-01	LEVER (S.OFF)	
159	3-934-835-01	SPRING (S.OFF)	
160	X-3371-666-1	REEL ASSY, T	
161	3-933-020-01	BELT	

Ref. No.	Part No.	Description	Remark
162	X-3371-668-1	CAPSTAN ASSY	
163	3-932-993-01	CHASSIS, OUTSERT	
164	3-343-358-01	RING, RETAINING	
165	3-933-005-01	SPRING (CAM), COMPRESSION	
166	7-621-770-87	SCREW +B 2.6X5	
167	3-937-760-01	SPRING (GROUND), COMPRESSION	
168	3-934-336-01	BEARING	
169	3-939-383-01	SPRING, COMPRESSION	
M401	A-3304-619-A	MOTOR ASSY	
S501	1-762-679-11	SWITCH, LEAF (POWER)	

9-960-504-81

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(Shibaura)

CFS-1055

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
Australian Model
E Model

SUPPLEMENT - 2

File this Supplement with the Service Manual.

Subject :
• CHANGE OF TUNER BOARD (US model only)
1-651-231-12 ➡ 1-651-231-14

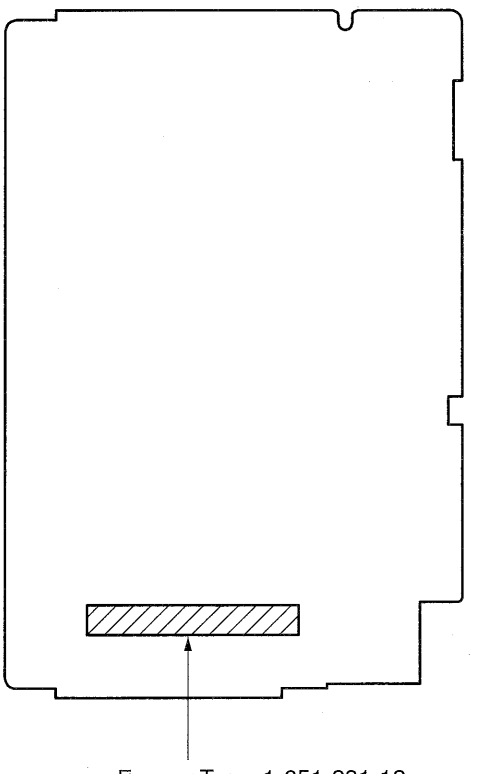
(ECN-RC801883)

Due to this change, only printed wiring boards, schematic diagram and a electrical parts list of US model are described in this supplement-2.
For other information, please refer to the previously issued CFS-1055 service manual (9-960-504-11) and Supplement-1 (9-960-504-81).

• CHANGE OF TUNER BOARD (US model only)

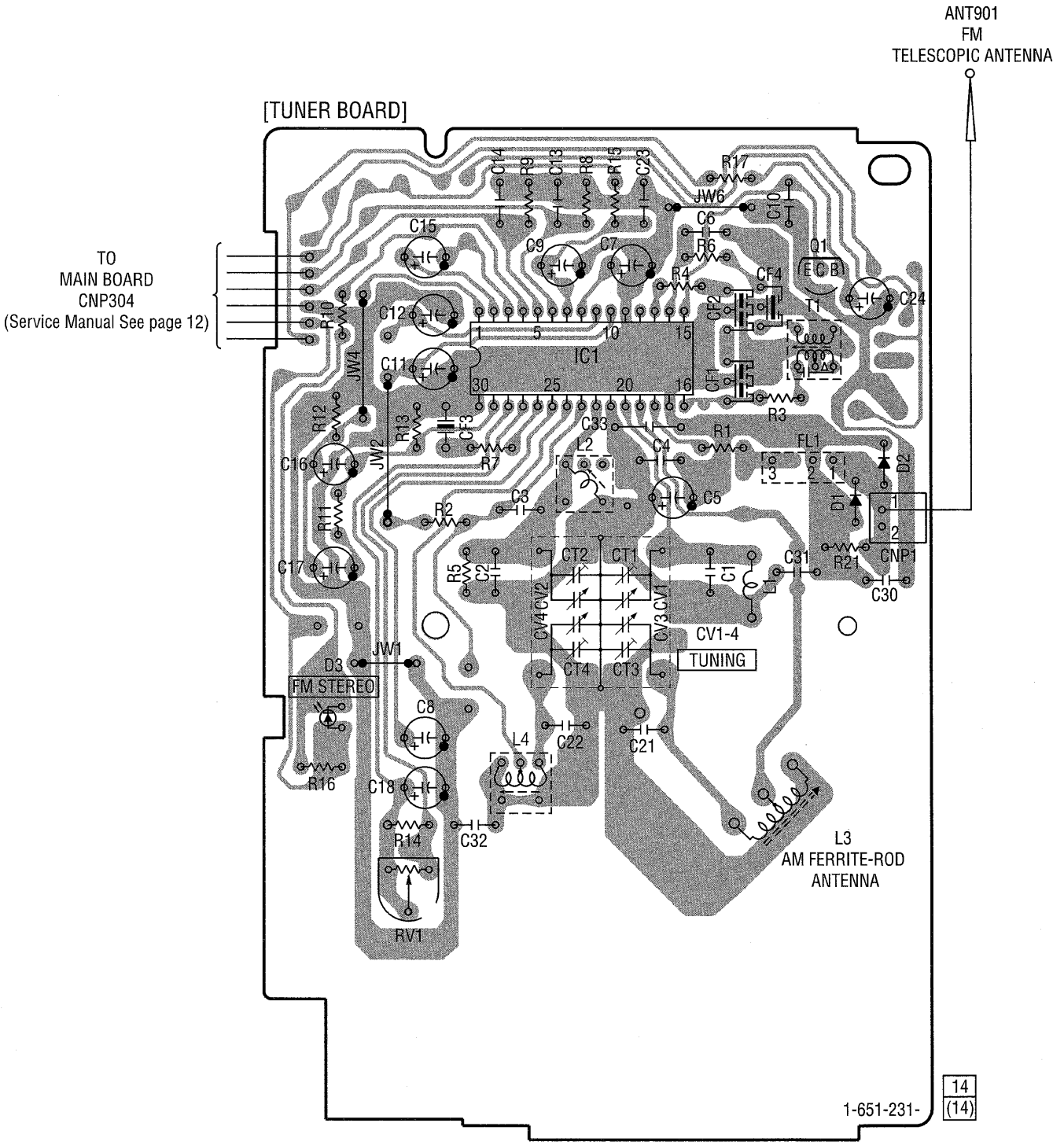
NEW TYPE IDENTIFICATION

[TUNER BOARD] (COMPONENT SIDE)



Former Type: 1-651-231-12
New Type: 1-651-231-**14**

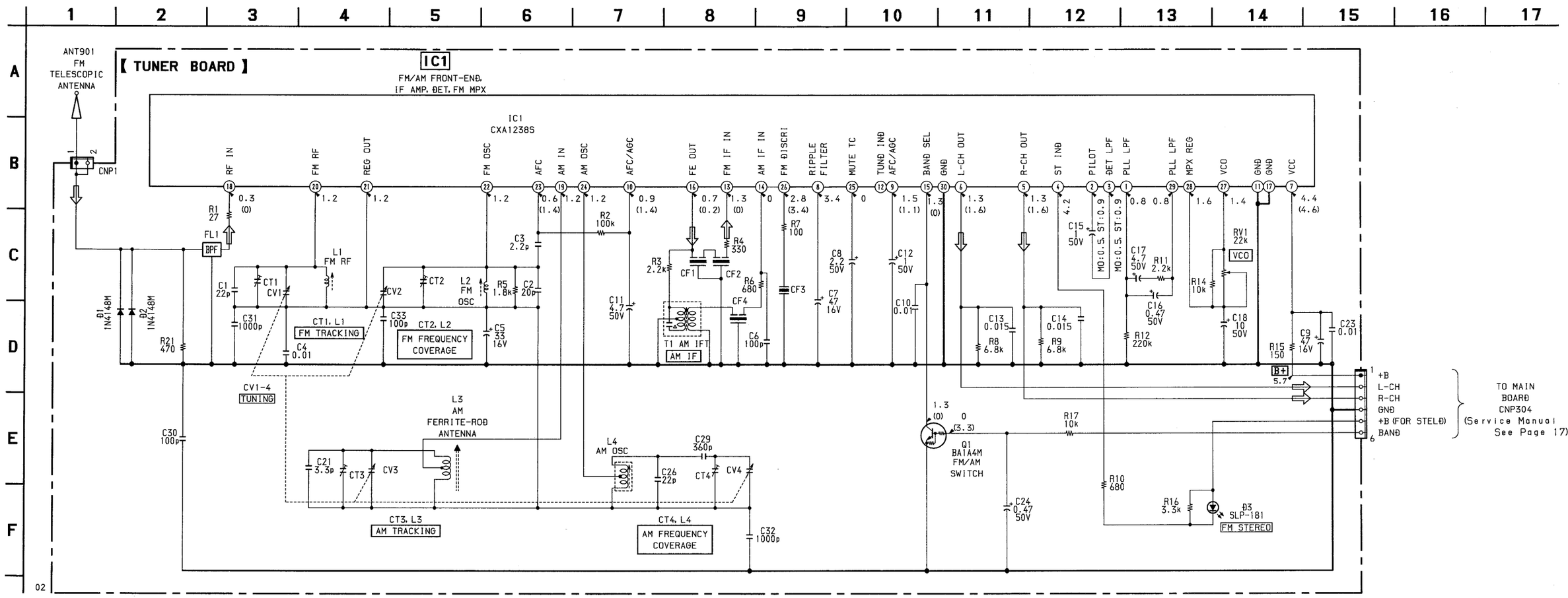
- **PRINTED WIRING BOARD (US model only)**
  (Service Manual See page 14)



Note:

- ⟜——— : parts extracted from the component side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

● **SCHEMATIC DIAGRAM (US model only)** (Service Manual See page 15)



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

• CHANGE OF EXPLODED VIEWS PARTS LIST

(Service Manual See page 21)

	Before Change		After Change	
Ref. No.	Part No.	Description	Part No.	Description
* 70	A-3269-045-A	TUNER BOARD, COMPLETE (US, Canadian, Australian, E)	A-3269-045-A	TUNER BOARD, COMPLETE (Canadian, Australian, E)
			A-3322-092-A	TUNER BOARD, COMPLETE (US)

TUNER

• ELECTRICAL PARTS LIST (US model only) (Service Manual See page 28 to 29)

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.

When indicating parts by reference number, please include the board.

- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

Ref. No.	Part No.	Description			Remark
*	A-3322-092-A	TUNER BOARD, COMPLETE **********			
		< CAPACITOR >			
C1	1-162-207-31	CERAMIC	22PF	5%	50V
C2	1-102-958-00	CERAMIC	20PF	5%	50V
C3	1-162-191-31	CERAMIC	2.2PF	10%	50V
C4	1-162-306-11	CERAMIC	0.01uF	30%	16V
C5	1-104-663-11	ELECT	33uF	20%	16V
C6	1-162-282-31	CERAMIC	100PF	10%	50V
C7	1-104-664-11	ELECT	47uF	20%	16V
C8	1-126-961-11	ELECT	2.2uF	20%	50V
C9	1-104-664-11	ELECT	47uF	20%	16V
C10	1-162-306-11	CERAMIC	0.01uF	30%	16V
C11	1-126-963-11	ELECT	4.7uF	20%	50V
C12	1-124-903-11	ELECT	1uF	20%	50V
C13	1-161-053-00	CERAMIC	0.015uF	10%	50V
C14	1-161-053-00	CERAMIC	0.015uF	10%	50V
C15	1-124-903-11	ELECT	1uF	20%	50V
C16	1-124-902-00	ELECT	0.47uF	20%	50V
C17	1-126-963-11	ELECT	4.7uF	20%	50V
C18	1-124-907-11	ELECT	10uF	20%	50V
C21	1-162-193-31	CERAMIC	3.3PF	10%	50V
C22	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V
C23	1-162-306-11	CERAMIC	0.01uF	30%	16V
C24	1-124-902-00	ELECT	0.47uF	20%	50V
C30	1-162-282-31	CERAMIC	100PF	10%	50V
C31	1-162-294-31	CERAMIC	0.001uF	10%	50V
C32	1-162-294-31	CERAMIC	0.001uF	10%	50V
C33	1-162-282-31	CERAMIC	100PF	10%	50V
		< FILTER >			
CF1	1-577-327-81	FILTER, CERAMIC			
CF2	1-577-327-81	FILTER, CERAMIC			
CF3	1-577-327-81	FILTER, CERAMIC			
CF4	1-527-870-00	FILTER			
		< CONNECTOR >			
* CNP1	1-580-163-11	PIN, CONNECTOR (PC BOARD) 2P			
		< TRIMMER >			
CT1	1-151-696-11	CAP, VAR (FM TRACKING)			
CT2	1-151-696-11	CAP, VAR (FM FREQUENCY COVERAGE)			
CT3	1-151-696-11	CAP, VAR (AM TRACKING)			
CT4	1-151-696-11	CAP, VAR (AM FREQENCY COVERAGE)			
		< VARIABLE CAPACITOR >			
CV1	1-151-696-11	CAP, VAR (TUNING)			
CV2	1-151-696-11	CAP, VAR (TUNING)			
CV3	1-151-696-11	CAP, VAR (TUNING)			
CV4	1-151-696-11	CAP, VAR (TUNING)			
		< DIODE >			
D1	8-719-055-76	DIODE 1N4148			
D2	8-719-055-76	DIODE 1N4148			
D3	8-719-038-29	LED SLP-181B-51 (FM STEREO)			
		< FILTER >			
FL1	1-236-022-11	FILTER, BAND PASS			
		< IC >			
IC1	8-752-050-20	IC CXA1238S			
		< COIL >			
L1	1-422-317-31	COIL, AIR-CORE (FM TRACKING)			
L2	1-422-230-11	COIL, AIR-CORE (FM FREQUENCY COVERAGE)			
L3	1-402-416-11	ANTENNA, FERRITE-ROD (AM)			(AM TRACKING)
L4	1-406-040-00	COIL (OSC) (AM FREQENCY COVERAGE)			
		< TRANSISTOR >			
Q1	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R1	1-249-398-11	CARBON	27	5%	1/4W
R2	1-249-441-11	CARBON	100K	5%	1/4W
R3	1-249-421-11	CARBON	2.2K	5%	1/4W
R4	1-249-411-11	CARBON	330	5%	1/4W
R5	1-249-420-11	CARBON	1.8K	5%	1/4W
R6	1-249-415-11	CARBON	680	5%	1/4W
R7	1-247-807-31	CARBON	100	5%	1/4W
R8	1-249-427-11	CARBON	6.8K	5%	1/4W
R9	1-249-427-11	CARBON	6.8K	5%	1/4W
R10	1-249-415-11	CARBON	680	5%	1/4W
R11	1-249-421-11	CARBON	2.2K	5%	1/4W
R12	1-247-887-00	CARBON	220K	5%	1/4W
R13	1-247-887-00	CARBON	220K	5%	1/4W
R14	1-249-429-11	CARBON	10K	5%	1/4W
R15	1-249-407-11	CARBON	150	5%	1/4W
R16	1-247-843-11	CARBON	3.3K	5%	1/4W
R17	1-249-429-11	CARBON	10K	5%	1/4W
R21	1-249-413-11	CARBON	470	5%	1/4W
		< VARIABLE RESISTOR >			
RV1	1-223-641-11	RES, ADJ, CARBON 22K (VCO)			
		< TRANSFORMER >			
T1	1-404-341-00	TRANSFORMER, IF (AM IF)			

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